Page 1549 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 10 Aug 2015 19:38:45 +0000
To: Tateiwa, Kenji
Subject: final workshop prospectus
Attachments: WorkshopProspectus July-30-2015.docx

Kenji:

I hope all is well with you.

Can we leave your name as co-chair of session 2?

Should we leave the co-chair from JAEA as blank or do you have a person to list?

I need to prepare a final workshop prospectus for distribution to NRC upper management and to our international program office very soon.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

International Workshop on the Use of Robotics and their Application at Nuclear Facilities

February 2, 2016, 1:00 – 5:30 p.m. (EST)
February 4, 2016, 9:00 a.m. – 5:00 p.m. (EST)

National Institute of Standards and Technology
Green Auditorium, Building 101
100 Bureau Drive, Gaithersburg, MD, 20899

Organizational Sponsors

NIST

U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

UK Atomic Energy Authority

Workshop Information

The U.S. Nuclear Regulatory Commission's (NRC's) Office of Nuclear Regulatory Research (RES); National Institute of Standards and Technology (NIST); U.S. Department of Energy (DOE); U.S. Department of Homeland Security (DHS); and United Kingdom Atomic Energy Authority have developed this prospectus for convening the "International Workshop on the Use of Robotics and their Application at Nuclear Facilities" during operation, emergency response and post-accident decommissioning.

Audience: Designers, developers, operators and users of robotics at nuclear facilities and other challenging and hazardous environments, and robotic engineers from industry, academia, research institutes and government agencies.

Workshop Objectives

The purpose of the workshop is to inform, discuss and assess past, present and anticipated future uses of robotics at nuclear facilities. Technical exchange of experiences using mobile robots in challenging environments such as the Martian exploration, deep-sea surveys and adverse, hazardous-conditions for humans will be sought. The specific objectives will be:

- Facilitate the sharing of information between Federal agencies, industry and academia on the present use of mobile robotics for monitoring, sampling and other surveillance functions for a range of air, water and material conditions within critical infrastructures.
- Seek ideas and insights on possible ways to develop robotics to execute complex tasks for assessing severe nuclear accidents and reporting conditions within critical infrastructures.
- Identify strategies for using robotics to examine, identify and recover radioactive materials such as fuel rods from damaged nuclear facilities.
- Adapt current mobile robotics used in non-nuclear applications to nuclear facility applications.
- Establish realistic plans to test both the robots and their operators for a range of nuclear facility scenarios.
- Discuss the development of standards for evaluating robots, strategies, their implementation and operating systems for robotics in nuclear facilities.
- Identify "game-changing" opportunities to facilitate the use of robotics in the nuclear industry.

The workshop is designed to facilitate technical exchange of lessons learned from historic nuclear applications and experiences (e.g., Three-Mile Island and Fukushima Daiichi); ongoing research; and other relevant applications (e.g., NASA's Martian Exploration Rovers – Spirit and Opportunity).

Key Outcomes Sought

➢ **Knowledge:**
- A better understanding of the state of robotics and remote systems and their potential applications to nuclear facilities
- Introduction to existing databases or compendiums of robots and remote systems for nuclear applications
- Ideas or strategies for enhancing existing databases or compendiums with quantifiable and verifiable performance data
- A use-case for using consensus standard test methods to assess performance in order to guide development, procurement and training

➢ **Development, Testing and Evaluation:**
- Proposed approaches for using consensus standard test methods to assess performance in order to guide development, procurement and training for nuclear applications
  - Host competitions, challenges, and technology incubators
  - Identify best-in-class contributing technologies (e.g., sensors, mobility, manipulators, NDE or other tools)
  - Conduct comprehensive testing in standard test methods to establish reliability and gain confidence
  - Iterate proposed solutions through validated simulations of standard test methods and mockups
  - Deploy proposed solutions into physical mockups and test beds

➢ **Adoption and Implementation:**
- A proposed end-user strategy for setting thresholds of capabilities (measured within standard test methods) necessary for deployment
- A regulatory approach for technical review of proposed strategies for integrating technology, standards, training and regulations to address implementation

➢ **Summary of the key insights drawn from presentations and panel discussions**

Workshop Structure

The workshop will be divided into five sessions (afternoons and mornings). Each session will focus on a technical theme. The proposed themes and questions to be addressed are:

Session 1: Overview of Challenges and Opportunities for the use of Robotic Technologies at Nuclear Facilities

Co-Chairs: Andy Szilagyi, DOE and Adam Jacoff, NIST

Presentations to address the following:

- What is the current-state-of-the-practice in applying robotic technologies to challenges at nuclear facilities and other hazardous environments?
- What are the opportunities to use robotic technologies for enhanced outcomes?
- What are the possible future uses of robotics at nuclear facilities?
- A use-case for using consensus standard test methods to assess performance in order to guide development, procurement and training

Contributed presentations to inform the audience on established or developing databases of robotic technologies and their applications, and how they have been integrated into successful monitoring and remediation programs.

At the end of the session, there will be demonstrations of the databases and example robotic exercises at the NIST Robot Test Facility (http://www.nist.gov/el/isd/ms/roboticsbldg.cfm).

Session 2: Lessons Learned Related to Robot Deployment at Fukushima Daiichi

Co-Chairs: Kenji Tateiwa, TEPCO and ____________, JAEA

Presentations to address the following questions:

- What robotic applications have been developed and applied to survey and assess challenging conditions within the damaged reactors and auxiliary support structures?
- What lessons were learned in developing and applying these robotic technologies?
- How were complex conditions and challenging environments negotiated by the adaptive robotic technologies?
- How were cleanup objectives, including worker safety, met by using these robotic technologies?

Contributed presentations to provide examples of the challenges encountered and successes achieved during the deployment of robots at Fukushima Daiichi?

Session 3: Industry and Government Experiences in Applying Robotic Technologies to Existing Challenges

Co-Chairs: Matt Marston, UCOR and ________, _____

Presentations to address the following questions:

- What were the challenges encountered in identifying and applying robotic technologies?

- What insights and lessons were learned in the development and application of these robotic technologies (e.g., Three-Mile Island clean-up)?
- How were complex conditions and challenging environments negotiated by adaptive robotic technology?
- What challenges remain for applying robotic technologies at nuclear facilities and other hazardous environments?

Contributed presentations to provide examples of the challenges and successes in applying robotic technologies?

Session 4: Ground-Breaking, Innovative Technologies and New Developments

Co-Chairs: Gill Pratt, DARPA and ________, DOE National Lab (?)

Presentations to address the following questions:

- What are the ground-breaking, innovative technologies and new developments to enhance the functionality of robotics at nuclear facilities?
- What are the complex conditions and challenging environments which need to be negotiated by adaptive robotic technologies?
- What are the challenges for further development of new robotic strategies and tools, over the next 5 – 10 years, to meet nuclear facility needs?

Contributed presentations to provide examples of the ground-breaking, innovative technologies and emerging robotic technologies?

Session 5: Robotic Technology Testing; Operator Training and Certification; and Regulatory Standards Development

Co-Chairs: Phil Mattson, DHS and __________, ASTM, ANSI/ANS or ASME

Presentations to address the following questions:

- Where and how are robots tested?
- Where and how are robotic operators trained?
- How can these testing and training programs be incorporated into a certification program recognized by industry and government?
- How do industry-developed standards (e.g., American Society for Testing and Materials) gain regulatory acceptance?
- What are the regulatory and procedural challenges that need to be addressed?

Contributed presentations providing examples of the robotic technology testing, operator training and proposed regulatory acceptance criteria?

Each session will have two co-chairs. The session will begin with a 30 minute keynote presentation followed by 20-minute contributed presentations. At the end sessions 2 through 5, there will be a panel discussion moderated by the session co-chairs. The panel will consist of the presenters and invited experts who will answer questions from the audience on lessons learned in robotic applications; identified databases; and possibilities for future nuclear applications.

The workshop organizing committee is seeking lessons learned from a wide range of international applications at nuclear facilities such as the Three-Mile Island, Chernobyl and Fukushima Daiichi decontamination and decommissioning activities.

The workshop will be open to the public to encourage industry participation.

Workshop Contacts:

Workshop Co-Chairs: Thomas Nicholson, NRC/RES Thomas.Nicholson@nrc.gov
Andrew Szilagyi, DOE-EM Andrew.Szilagyi@em.doe.gov
Adam Jacoff, NIST adam.jacoff@nist.gov

Organizing Committee Members: Thomas Nicholson, Don Marksberry, Anders Gilbertson, Boby Abu-Eid, Jack Parrott and Bob Bernardo, U.S. NRC; Andrew Szilagyi, DOE-EM; Adam Jacoff and Kamel Saidi, NIST; Laurie Judd, NuVision Engineering; Kenji Tateiwa, TEPCO; Rob Buckingham, UKAEA -RACE; Philip Mattson, Department of Homeland Security; and others to be announced (e.g., DARPA, NASA, U.S. Navy)

Workshop Registration and Logistics: NIST Conference Coordinator

Registration: All attendees must complete and submit a registration form and pay a $71 registration fee two weeks prior to the workshop. This form will become available in early January 2016 on the NIST Public Website under "International Workshop on the Use of Robotics at Nuclear Facilities."

Weblink: NIST events Webpage will provide registration procedures; workshop agenda, and information on hotel accommodations; shuttle bus service to and from the hotel to NIST; shuttle bus service to and from the METRO to NIST; and map and driving instructions.

From: Nicholson, Thomas
Sent: 17 Apr 2015 18:43:48 +0000
To: 'Jacoff, Adam S.';'kamel.saidi@nist.gov';'philip.mattson@hq.dhs.gov';'andrew.Szilagyi@em.doe.gov';'koi@k.u-tokyo.ac.jp';'Tateiwa, Kenji';Aird, David;Bernardo, Robert;West, Steven;Madden, Patrick;Moyer, Carol;Marksberry, Don
Cc: 'Levitan, William'
Subject: First organizational meeting to plan the November 2015 Workshop on the Use of Robotics at Nuclear Facilities
Attachments: Agenda.04-21-2015.docx, handouts_150413_01-e.pdf

Adam, Phil, Kamel, Andrew and Kenji:

Attached is a tentative agenda for our subject meeting.

I am also attaching information sent out earlier by Kenji Tateiwa, TEPCO on the recent use of robotics at Fukushima Daiichi.

Thanks for your earlier responses to my follow-up suggestion.

Yes, everyone has agreed to meet via teleconference on Tuesday, April 21st @1:30 p.m. EDST to discuss how we might organize the subject workshop.

To participate, please call **1-888-677-0358** with (b)(6) followed by the **#** sign.

Please send me any input you may have so that I can prepare a draft agenda and then forward the tentative agenda to you later this week.

Ideas could include the workshop scope, goals, invited organizations, list of topics and possible presenters/organizations.

Thanks ...... Tom

draft

4/16/15

Tentative Agenda

Planning Meeting for the Workshop on the Use of Robotics at Nuclear Facilities

---

Time:	***1:30 p.m. EDST, Tuesday April 21st***
Location:	***Teleconference 1-888-677-0358 with*** (b)(6) [redacted] ***followed by the # sign***

Attendees:	**Adam Jacoff and Kamel Saidi, NIST; Philip Mattson, DHS; Andrew Szilagyi, DOE/EM; Kenji Tateiwa, TEPCO; Tom Nicholson, Pat Madden and Steve West, NRC**
Invitees:	**Don Marksberry, Robert Bernardo, David Aird, and Carol Moyer, NRC**

---

1. Introductions and review meeting agenda - Tom Nicholson, NRC
2. Discuss workshop scope and goals - all
3. Identify invited organizations - all
4. Develop list of topics and possible presenters/organizations - Adam Jacoff, NIST
5. Discuss recent uses of robotics at Fukushima Daiichi – Kenji Tateiwa, TEPCO
6. Establish next meeting date and time - all
7. Action items for next meeting - all
8. Closing comments – All
9. Adjourn

Contact: Tom Nicholson, RES, e-mail: Thomas.Nicholson@NRC.GOV at 301-251-7498

<Reference>

"Development of a technology to investigate inside the Reactor Primary Containment Vessel (PCV)"

-- Site test "Investigation B1" on grating around the pedestal inside Unit 1 PCV -

[For April 10]

April 13, 2015

Tokyo Electric Power Company

IRID

東京電力

TEPCO

The content of this material includes the output of the International Research Institute for Nuclear Decommissioning (IRID)

1. Investigation overview

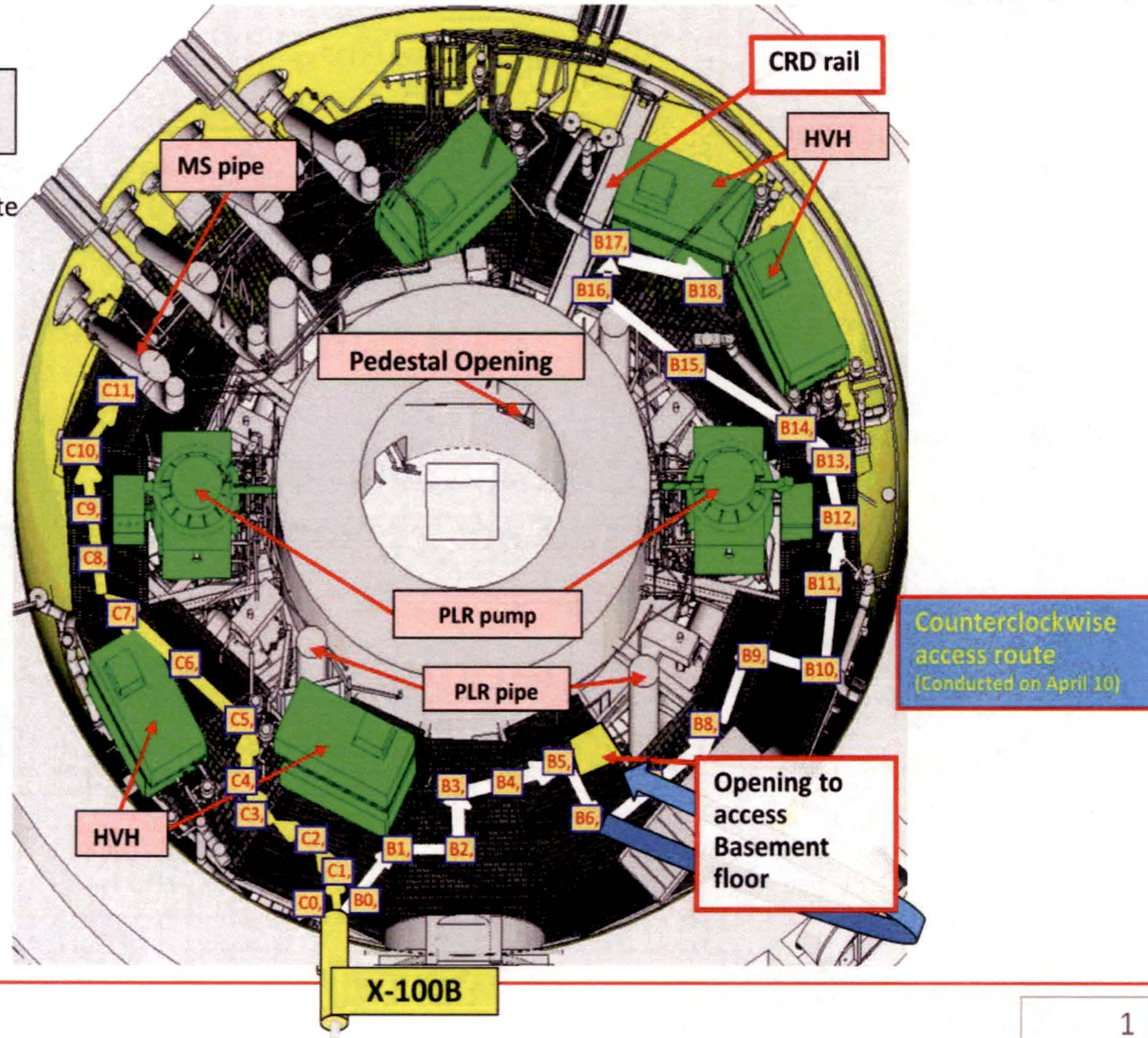
Purpose: For Unit 1, conducting an investigation in order to collect information on "the 1st floor grating inside the Primary Containment Vessel (PCV)" from the robot inserted through X-100B penetration pipe.

: Access route (counterclockwise)
: Access route (clockwise)

B0, ~ B18, Counterclockwise route
C0, ~ C11, Clockwise route

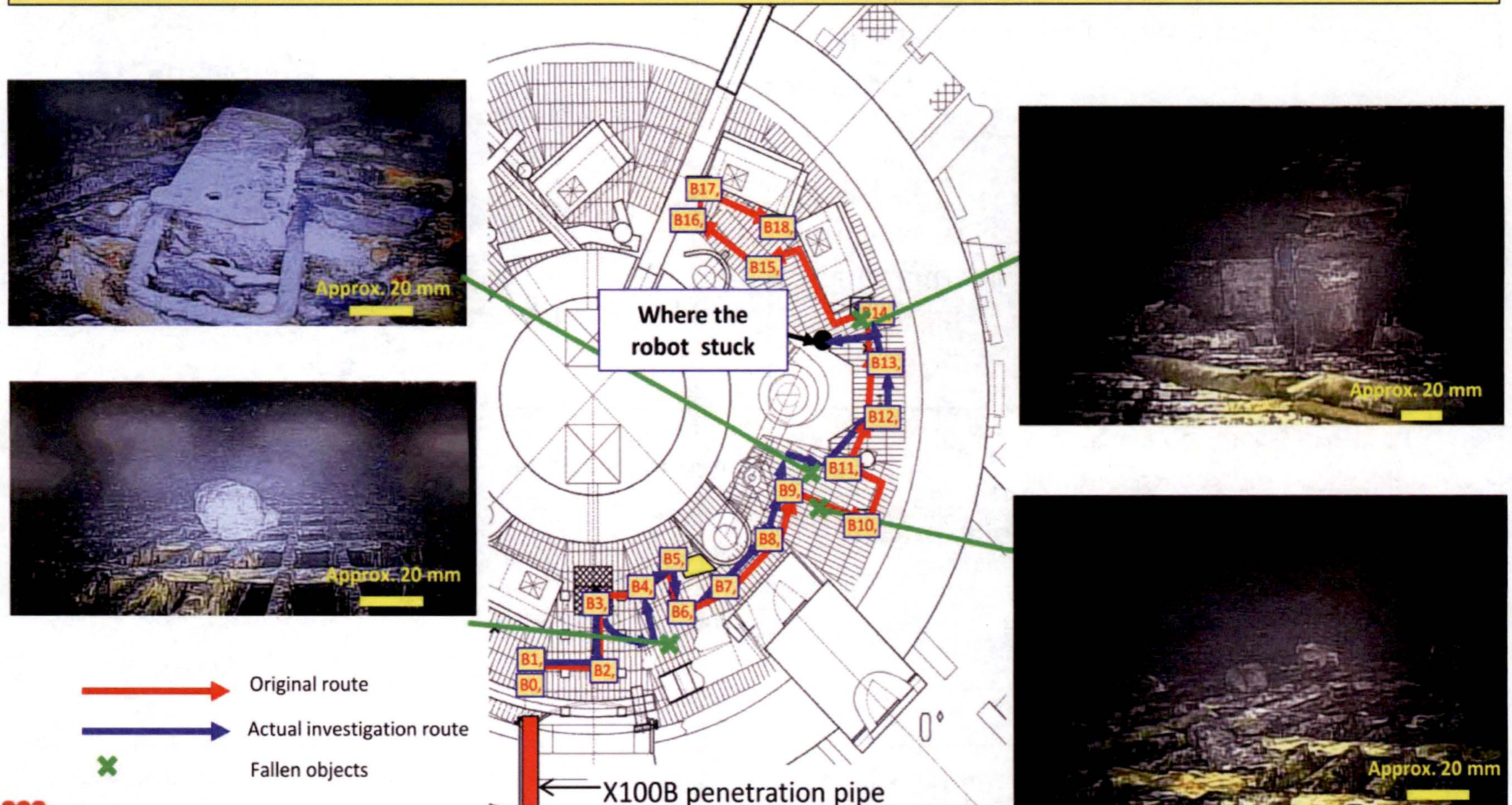
Access points (Planned)

Investigation device



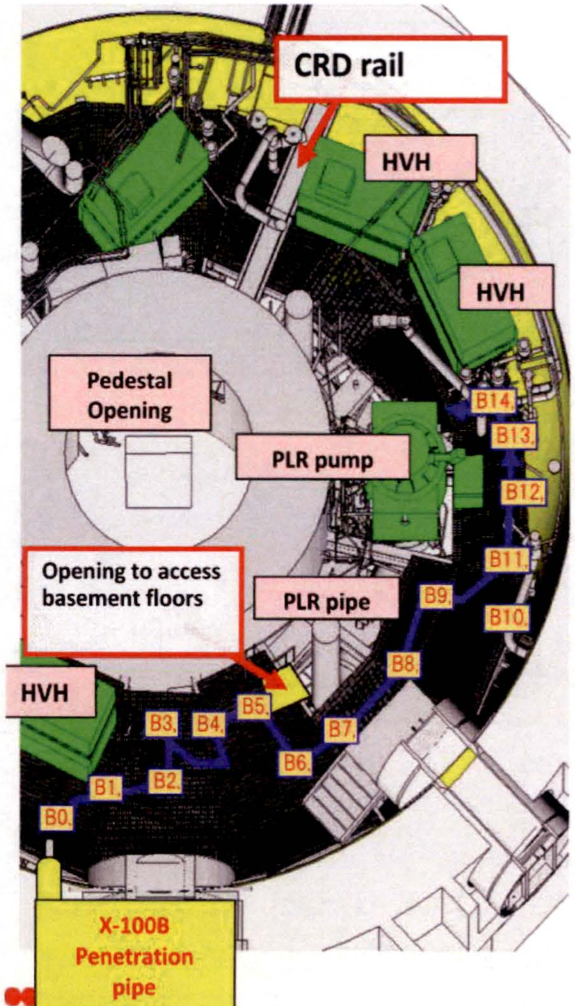
2. Access route (performance result)

- The investigation was conducted taking on a different route as some objects were found to be fallen on the original access route planned.
- The robot was stuck on the route between B14 and B15.



3. Investigation results

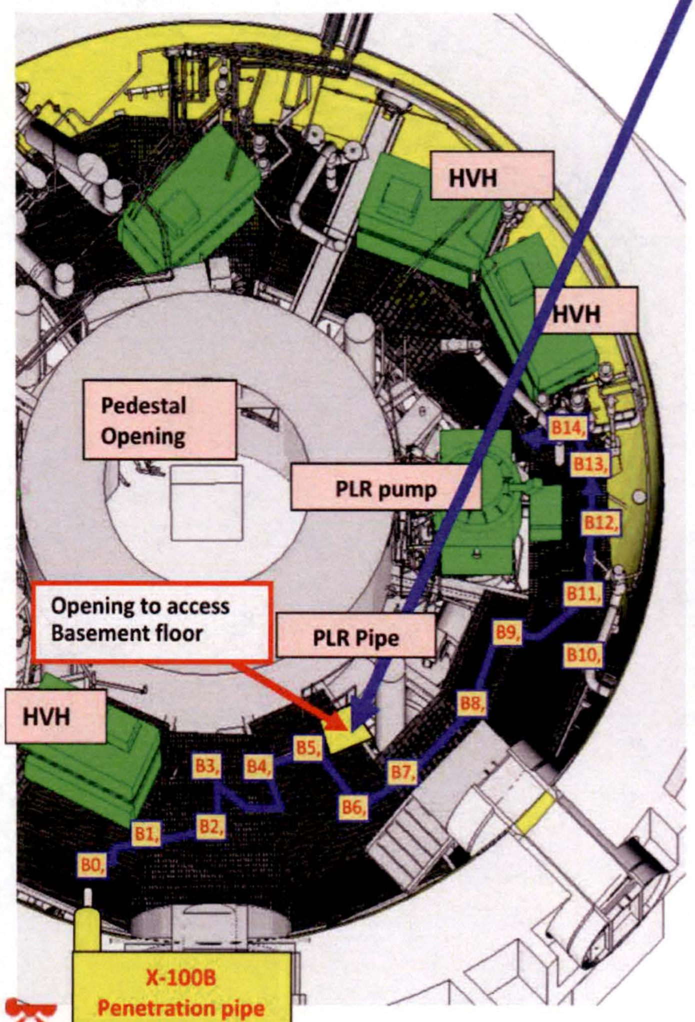
The following information were obtained for items ① to ③ of this investigation.



No.	Location	Investigation results
①	Opening to access basement floors	• B2 investigation* will be conducted next time. TEPCO confirmed **there is an opening accessible to the basement as well as no obstacles around it.**
②	CRD rail	• **Yet to be reached at CRD rail.** • **Images have been taken** with a camera facing towards CRD rail from the place where the robot reached at, **which is now under evaluation**.
③	On the access route	• **No significant damages were found on the existing facilities.** (such as HVG, PLR pipe, the wall of Pedestal) • **Information on the temperature and radiation levels** has been obtained at each investigation point.

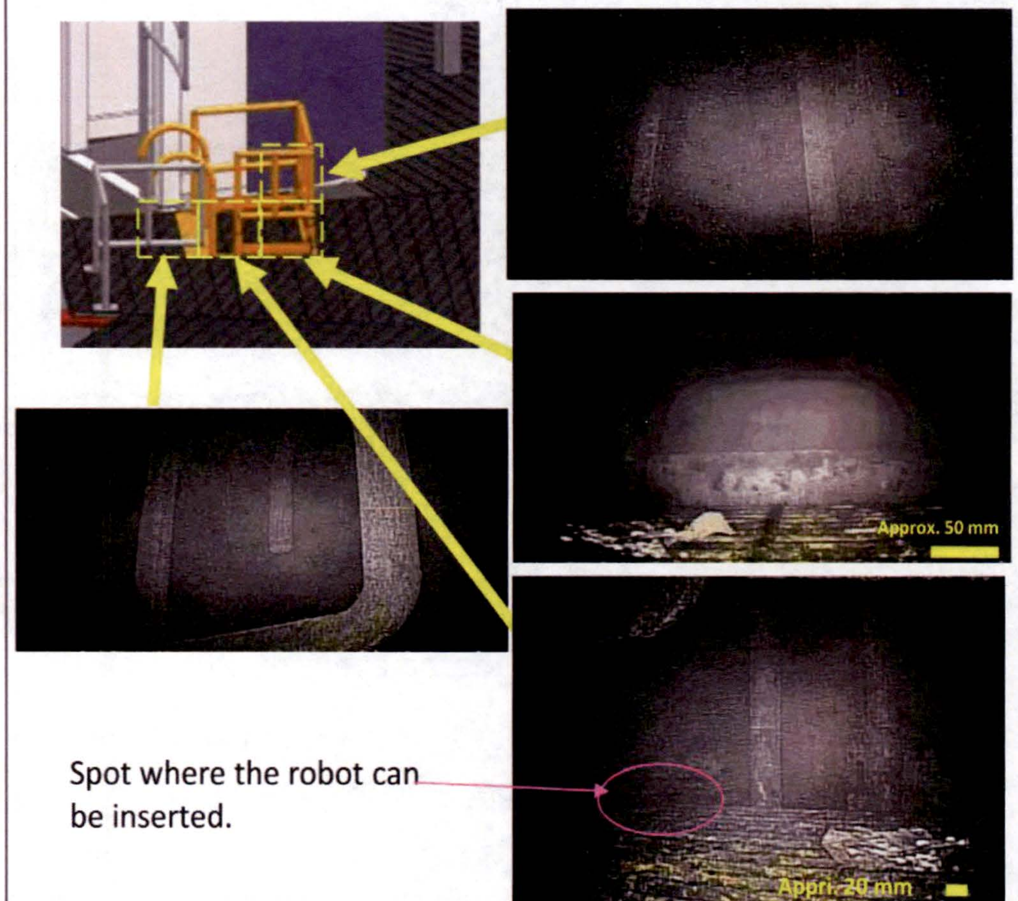
* B2 investigation: Investigation on basement floor excluding the pedestal.

4-1. Images (Opening to access the basement)

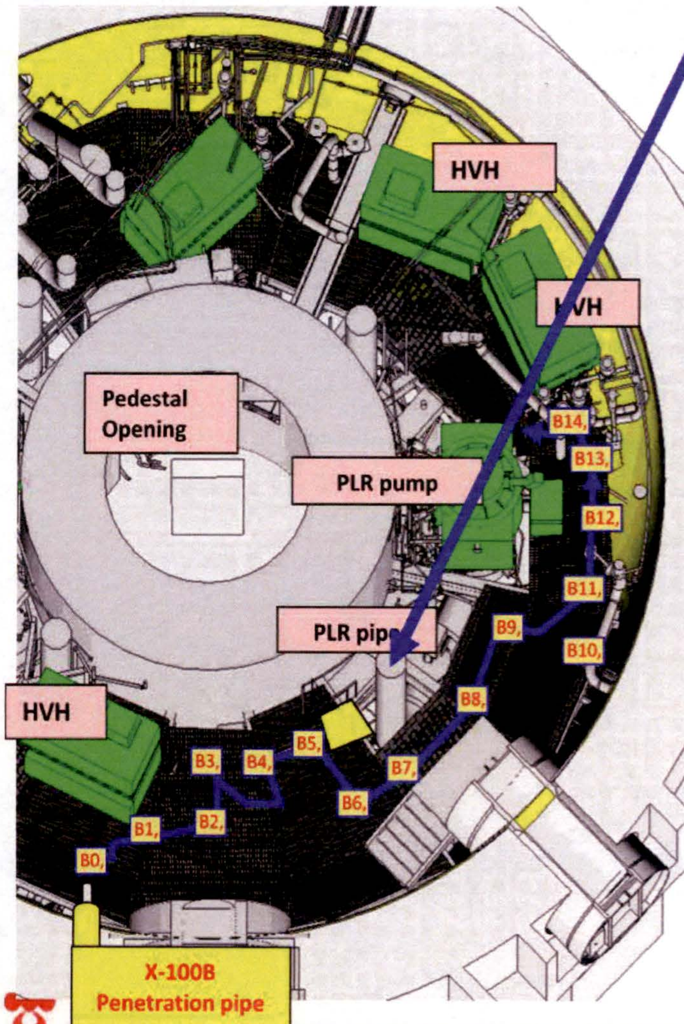


B4

With B2 investigation to be conducted next time, TEPCO confirmed there is an opening accessible to the basement as well as no obstacles around it.



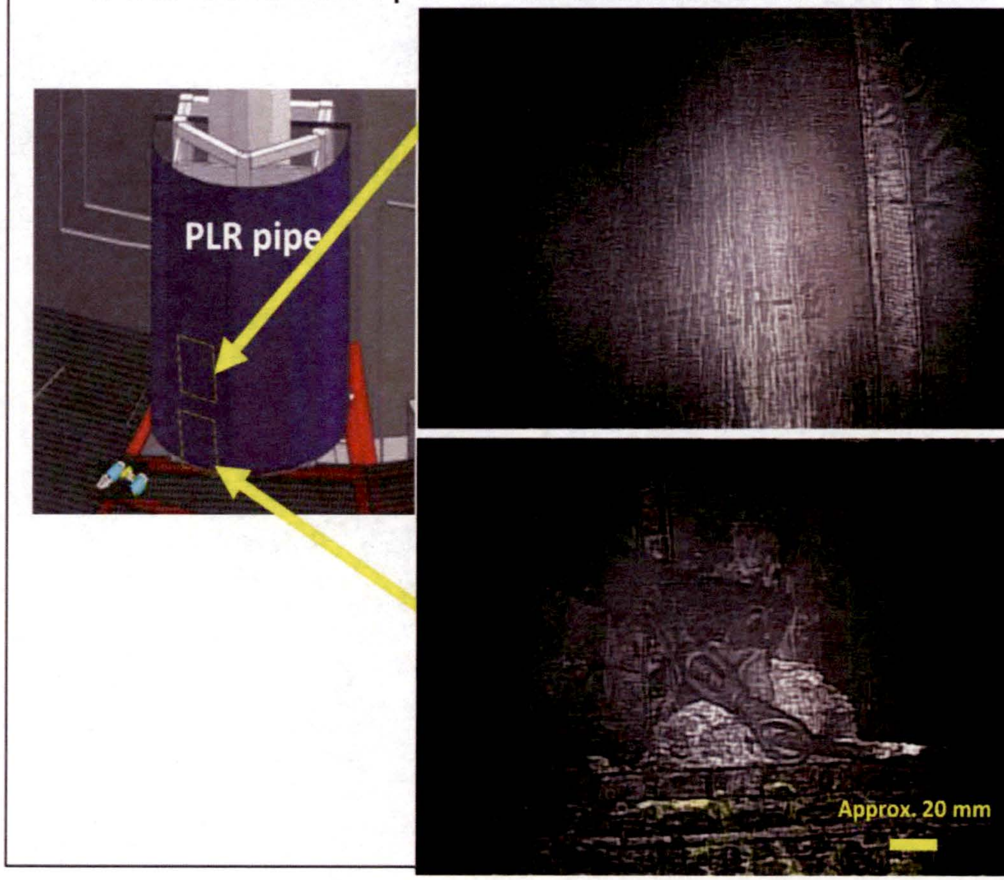
4-2. Images (PLR pipe)



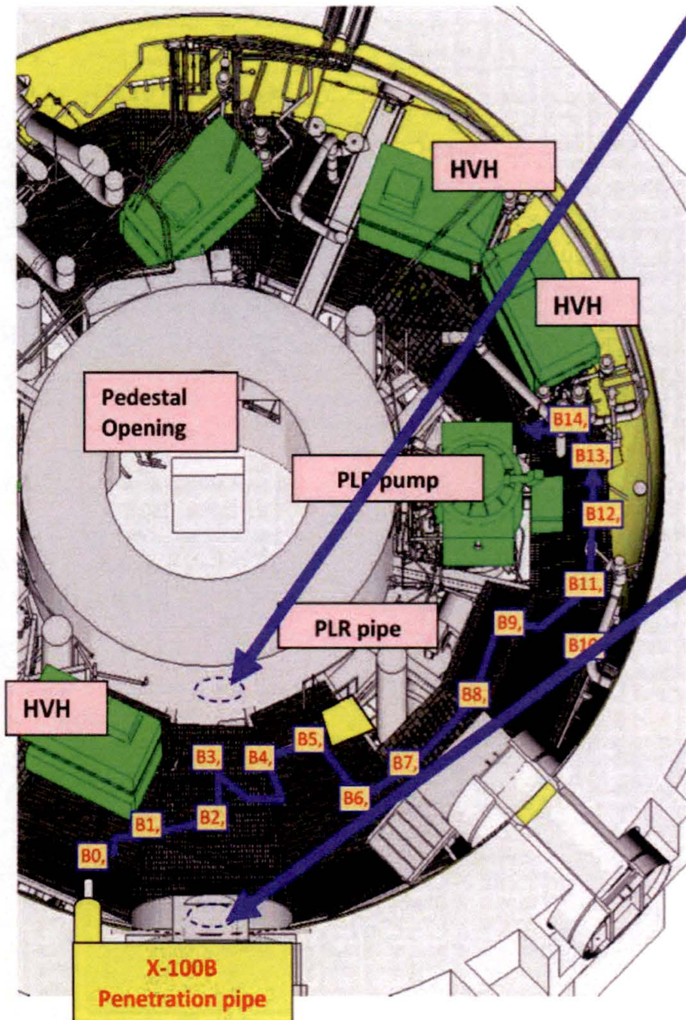
B7

・No significant damages were found on the PLP pipe (for heat retention).

・It was found that a part of the shield has been fallen off.

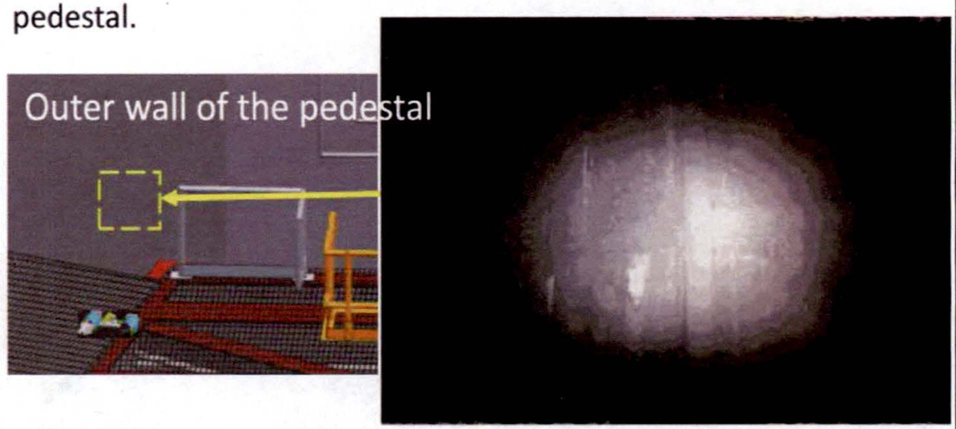


4-3. Images (Equipment hatch and exterior of pedestal)



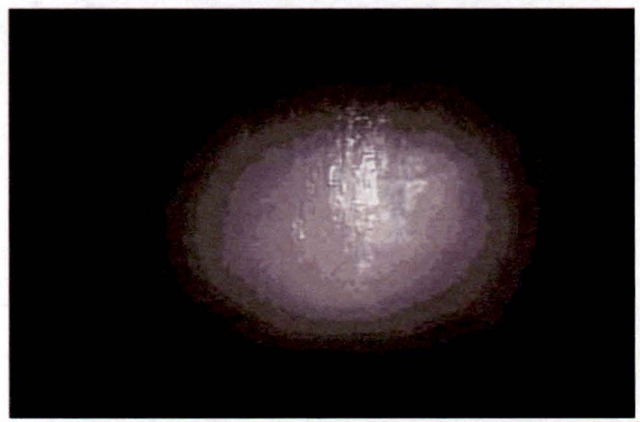
B3 Exterior of the outer wall of the pedestal

No significant damages were found on the outer wall of the pedestal.



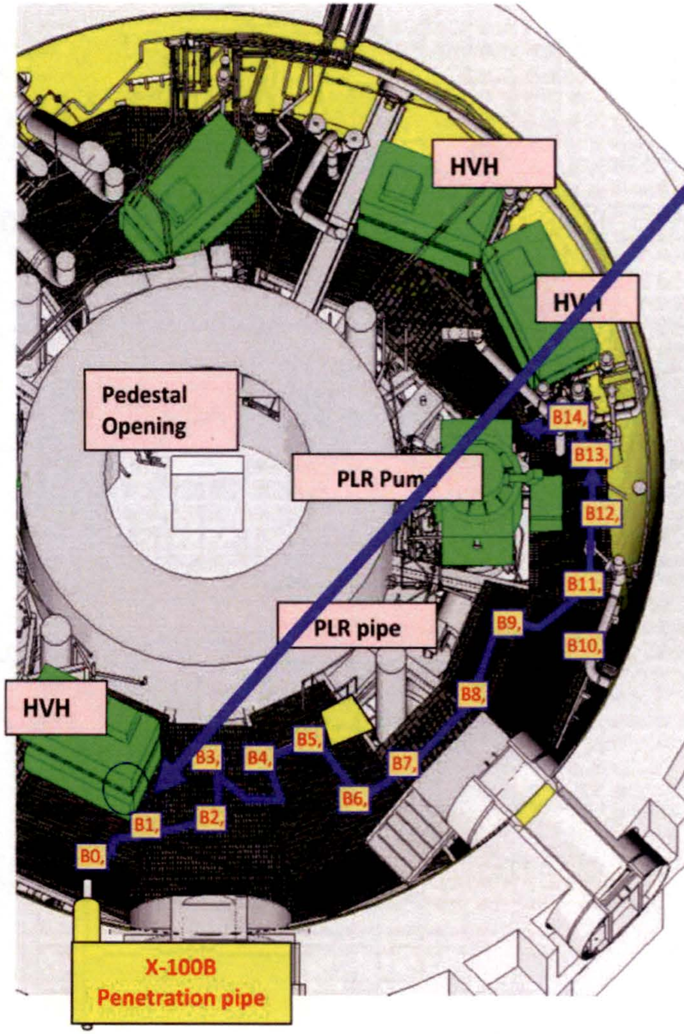
B2 Exterior of the equipment hatch.

No significant damages were found on the equipment hatch.



東京電力

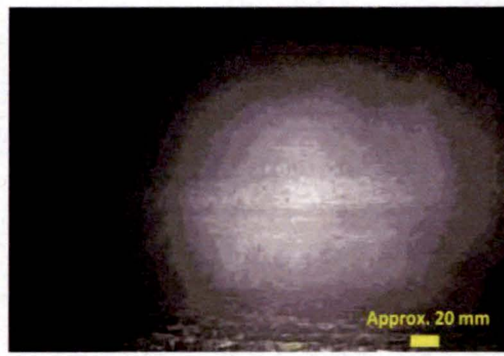
4-4. Images (HVH (D))



B1

No significant damages were found on HVH (D).

HVH（In the center at the bottom)

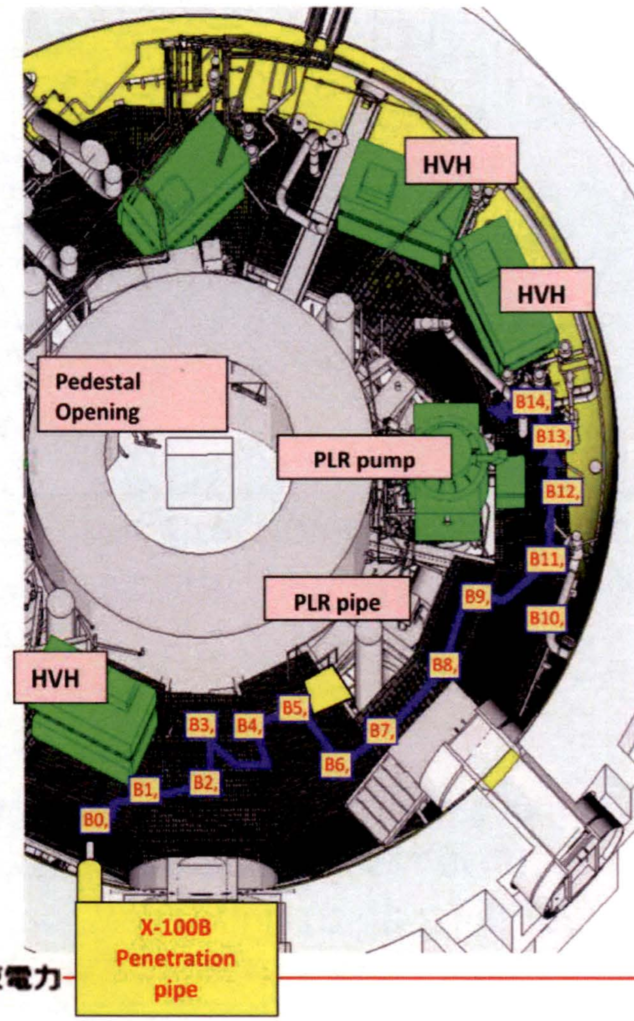


HVH（At the edge of the bottom)

東京電力

5. Investigation results (Temperature/ dose rate)

Temperature and dose rate were measured at the following points.

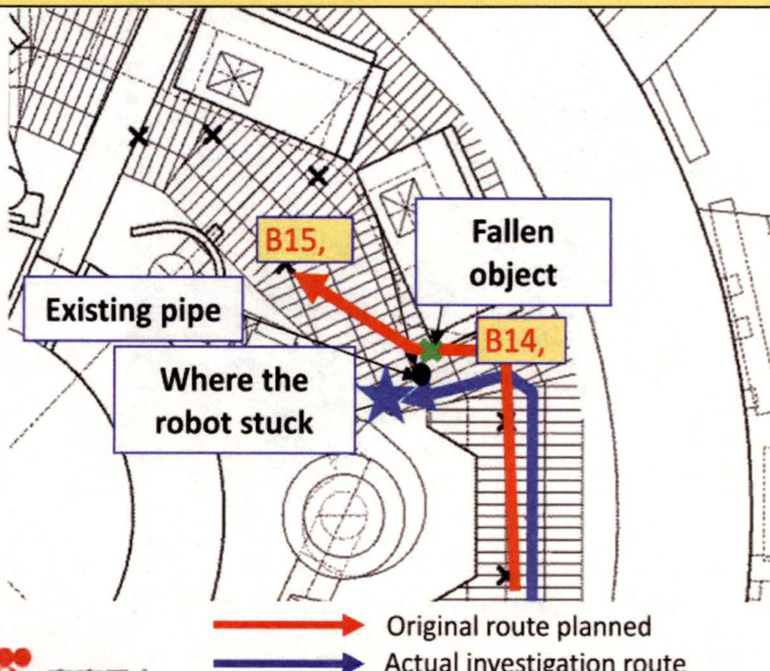


	Dose rate (Sv/h)	Temperature (℃)
B3	**7.4**	**17.8**
B4	**7.5**	**19.2**
B5	**8.7**	**19.4**
B7	**7.4**	**19.5**
B11	**9.7**	**19.2**
B14	**7.0**	**20.2**

6. Investigation robot stuck on route

■ Object was found to be fallen on the planned route between B 14 and B 15 where was the narrowest part of it.
■ Following the procedures, the investigation continued by choosing an another route avoidable the objects.

■ After that, although the robot stuck at a narrow point, it captured some images facing to the direction of CRD rail. (currently the images are under evaluation)



<u>Possible cause and measures:</u>

The robot got stuck with an existing pipe and some shut parts of the grating or uneven part at the joint, which resulted in making the route hard to run on.

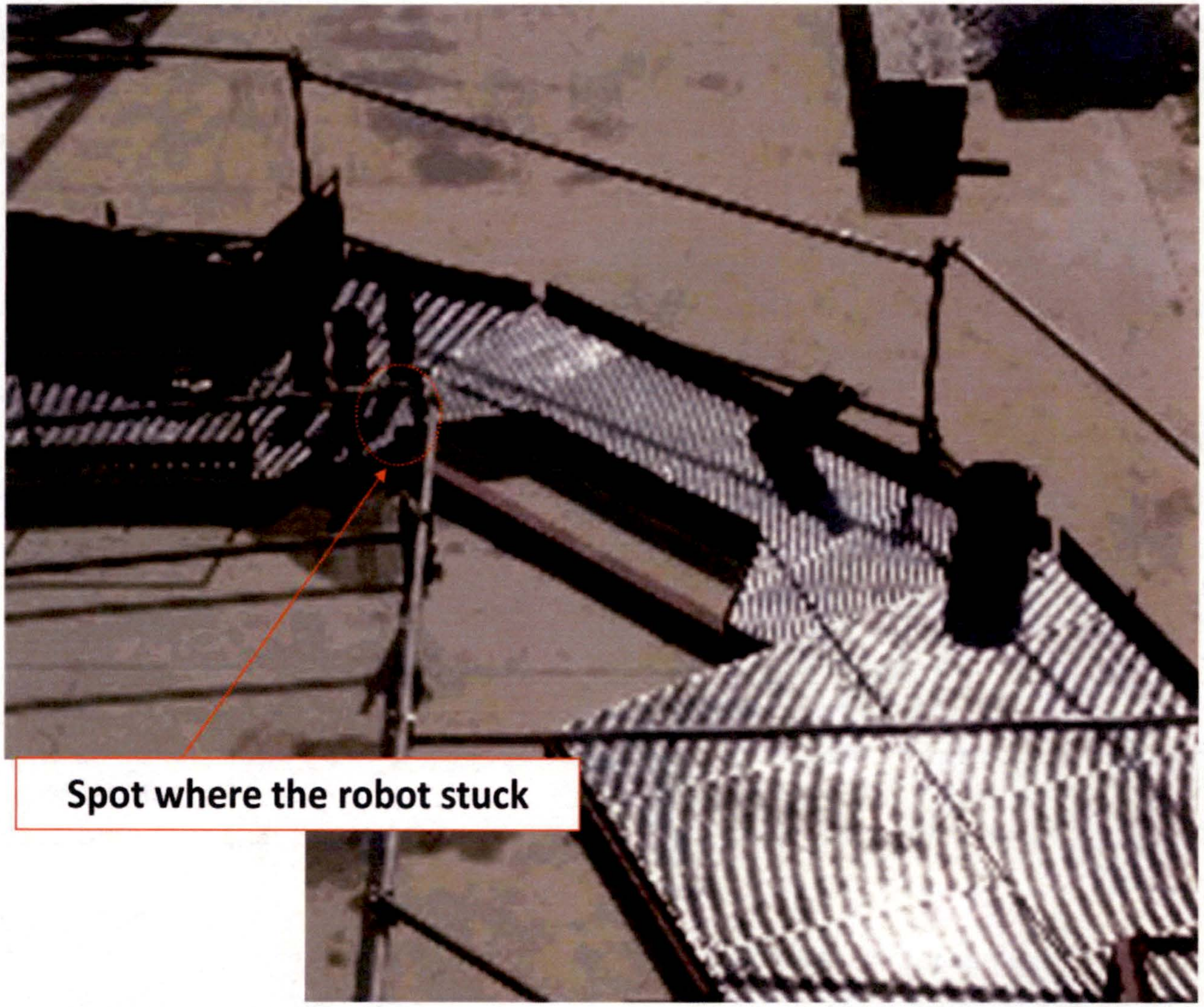
Measures to be taken are under study.

7. Schedule

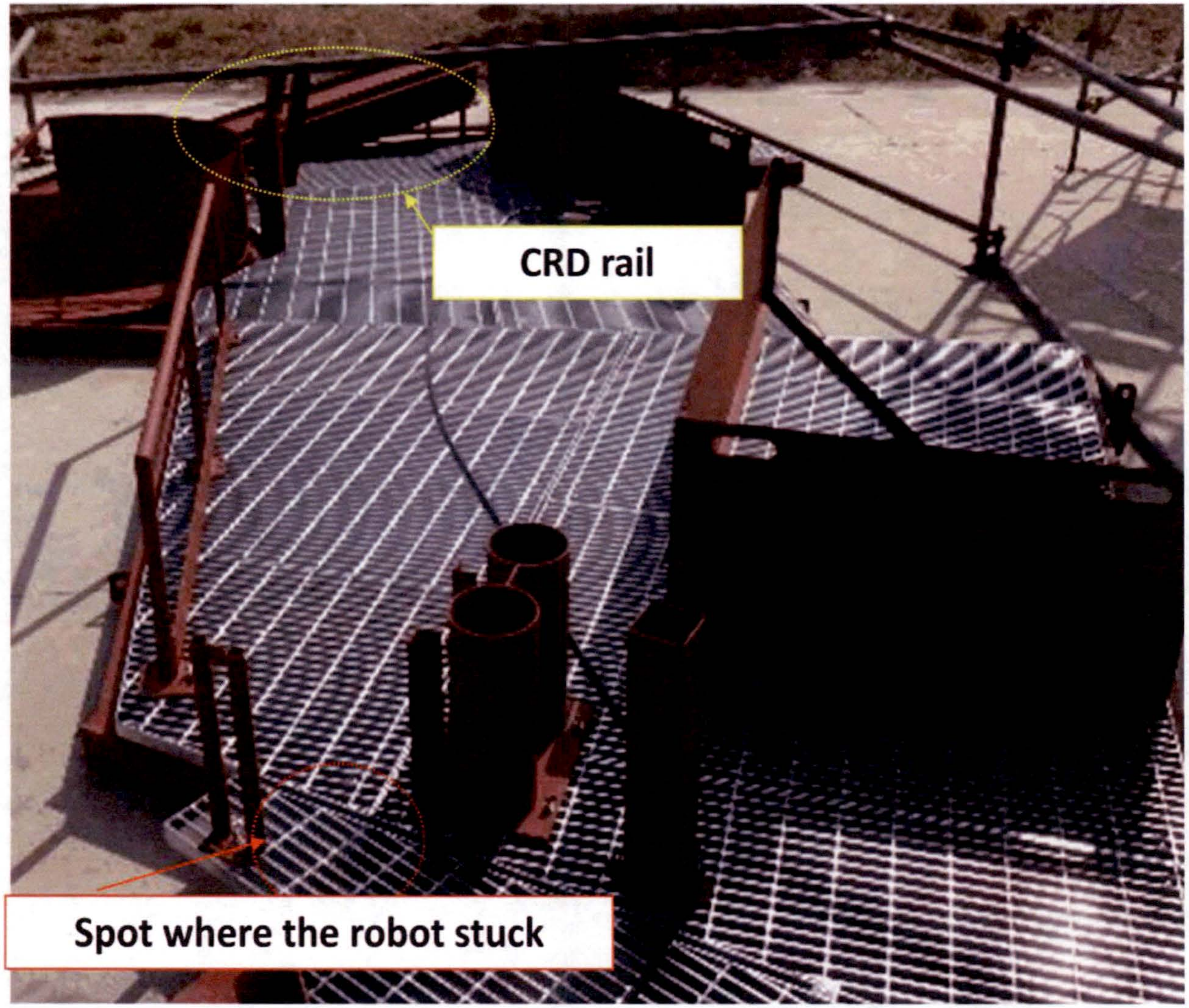
■ Dose rates were obtained below 10 Sv/h.
■ A knowlege was obtained that with the same amount of dose rates in "investigation on clockwise route", the investigation camera which installed into the robot could tolerate two or three days without any problems .
■As for the case of an investigation on clockwise route, the plan is currently reviewed based on the knowledge obtained above.

	April 2015							
	10	11	12	13	14	15	16	17
	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
1. Investigation on counterclockwise route	Investigation	Robot collection review	Robot collection review					
2. Investigation on clockwise route				Under examination for the implementation period for the investigation on clockwise route.				

Reference: Mock-up



Reference: Mock-up



From: Nicholson, Thomas
Sent: 8 Jul 2015 15:47:13 +0000
To: tateiwa.kenji@tepco.co.jp
Subject: FW: Ad Hoc Committee to fully define Workshop Prospectus

Kenji:

Sorry to send the meeting appointment to your old address. I hope this message got to you.

Thanks so much for participating this morning (your later evening).

Thanks ……….. Tom

-----Original Appointment-----
From: Nicholson, Thomas
Sent: Wednesday, July 08, 2015 11:41 AM
To: Nicholson, Thomas; judd@nuvisioneng.com; 'Tateiwa, Kenji'; andrew.Szilagyi@em.doe.gov; Jacoff, Adam S.; jrenshaw@epri.com; 'philip.mattson@hq.dhs.gov'; 'kamel.saidi@nist.gov'; Marksberry, Don; Bernardo, Robert; Csontos, Aladar; Parrott, Jack; 'koi@k.u-tokyo.ac.jp'; West, Steven; Rini, Brett; Sangimino, Donna-Marie; Abu-Eid, Boby; Price, Drew R. (ARC-VE)[WYLE LABS] (drew.price@nasa.gov); 'jason.averill@nist.gov'; Rinker, Michael; 'Buckingham, Rob'; Correia, Richard; Coyne, Kevin; 'Awad, Raoul'; 'Tavasoli, Vali'; 'V.Michal@iaea.org'; Ibrahim, Eman; Vucetic, Jasmina; El Dabaghi, Nadine; YongChang.Liu@cnsc-ccsn.gc.ca; Zhaochang.Zeng@cnsc-ccsn.gc.ca
Subject: Ad Hoc Committee to fully define Workshop Prospectus
When: Tuesday, July 28, 2015 9:00 AM-5:00 PM (UTC-05:00) Eastern Time (US & Canada).
Where: NIST Robot Test Facility

Adam Jacoff, Phil Mattson, Andy Szilagyi, Laurie Judd, Kenji Tateiwa, Kam Saidi, and Don Marksberry:

This morning, we agreed to have an Ad Hoc committee (you are its members) meet at NIST on Tuesday, July 28th to fully define the Workshop prospectus.

We will begin our meeting at 9:00 a.m. EDST and continue until the draft prospectus is accomplished.

Please send your personal information (e.g., name, organization, e-mail address, office telephone number including citizenship) to Adam Jacoff this week to arrange for access to NIST.

I will revise the prospectus based upon today's discussions, which will be reviewed and further revised at our July 28th meeting.

For the July 28th meeting, I have reserved a teleconference bridge:

U.S. and Canada call-in at 1-888-677-0358 with (b)(6)

International call-in at 1-210-234-7539 with (b)(6)

In consultation with Adam Jacoff and others, I will draft an agenda for the July 28th meeting and mail it to you by July 21st.

Thanks for your interest and commitment to meet on July 28th at NIST to finalize the prospectus.

Thanks ………. Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

Page 1574 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1575 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Nicholson, Thomas
Sent: 6 Feb 2015 18:59:15 +0000
To: Tateiwa, Kenji;andrew.Szilagyi@em.doe.gov;Norton, Charles
Cc:
adam.jacoff@nist.gov;elizabeth.moylan@nist.gov;@emsus.com;elena.messina@nist.gov
Bcc: Madden, Patrick;Correia, Richard;Rini, Brett
Subject: FW: Possible Dates to visit NIST Robotics Laboratory
Attachments: NIST1260 Foreign Visitor Form (YOURNAMEHERE).pdf

Kenji, Andrew and Chuck:

How about a visit to NIST on Thursday, February 19th @10:00 a.m.?

Attached is the NIST visitor form we need to fill-out and send to Adam Jacoff, NIST.

Please fill it out and send it directly to Adam.

Thanks .... Tom

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia,

Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1579 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1580 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1581 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1582 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1583 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 16 Jul 2015 16:20:32 +0000
To: tateiwa.kenji@tepco.co.jp
Subject: FW: Revised Workshop Prospectus draft July 15, 2015

Kenji:

Some additional information.

Thanks .... Tom

From: Parrott, Jack
Sent: Thursday, July 16, 2015 10:59 AM
To: Nicholson, Thomas
Subject: RE: Revised Workshop Prospectus draft July 15, 2015

Outside of Scope

From: Nicholson, Thomas
Sent: Wednesday, July 15, 2015 7:09 PM
To: tateiwa.kenji@tepco.co.jp; judd@nuvisioneng.com; andrew.Szilagyi@em.doe.gov;Jacoff, Adam S.; 'philip.mattson@hq.dhs.gov'; 'kamel.saidi@nist.gov'; Marksberry, Don; Gilbertson, Anders
Cc: Bernardo, Robert; Csontos, Aladar; Parrott, Jack; West, Steven; Rini, Brett; Sangimino, Donna-Marie; Abu-Eid, Boby; Correia, Richard; Coyne, Kevin
Subject: Revised Workshop Prospectus draft July 15, 2015

Kenji, Laurie, Andy, Adam, Phil, Kam, Don and Anders:

I am forwarding the attached revised workshop prospectus.

These revisions are based upon our July 8th teleconference discussions, and recent input from Laurie Judd and Andy Szilagyi.

<< File: WorkshopProspectus.July15-2015.docx >>
Please review. It will be further reviewed and revised at our July 28th meeting at NIST.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

Page 1586 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1587 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1588 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 11 May 2015 19:27:58 +0000
To: 'Tateiwa, Kenji'
Subject: FW: Robotics in DCSS
Attachments: ESCP 2015 - Final Version - NDE for DCSS Inspection.pdf

Outside of Scope

ELECTRIC POWER RESEARCH INSTITUTE

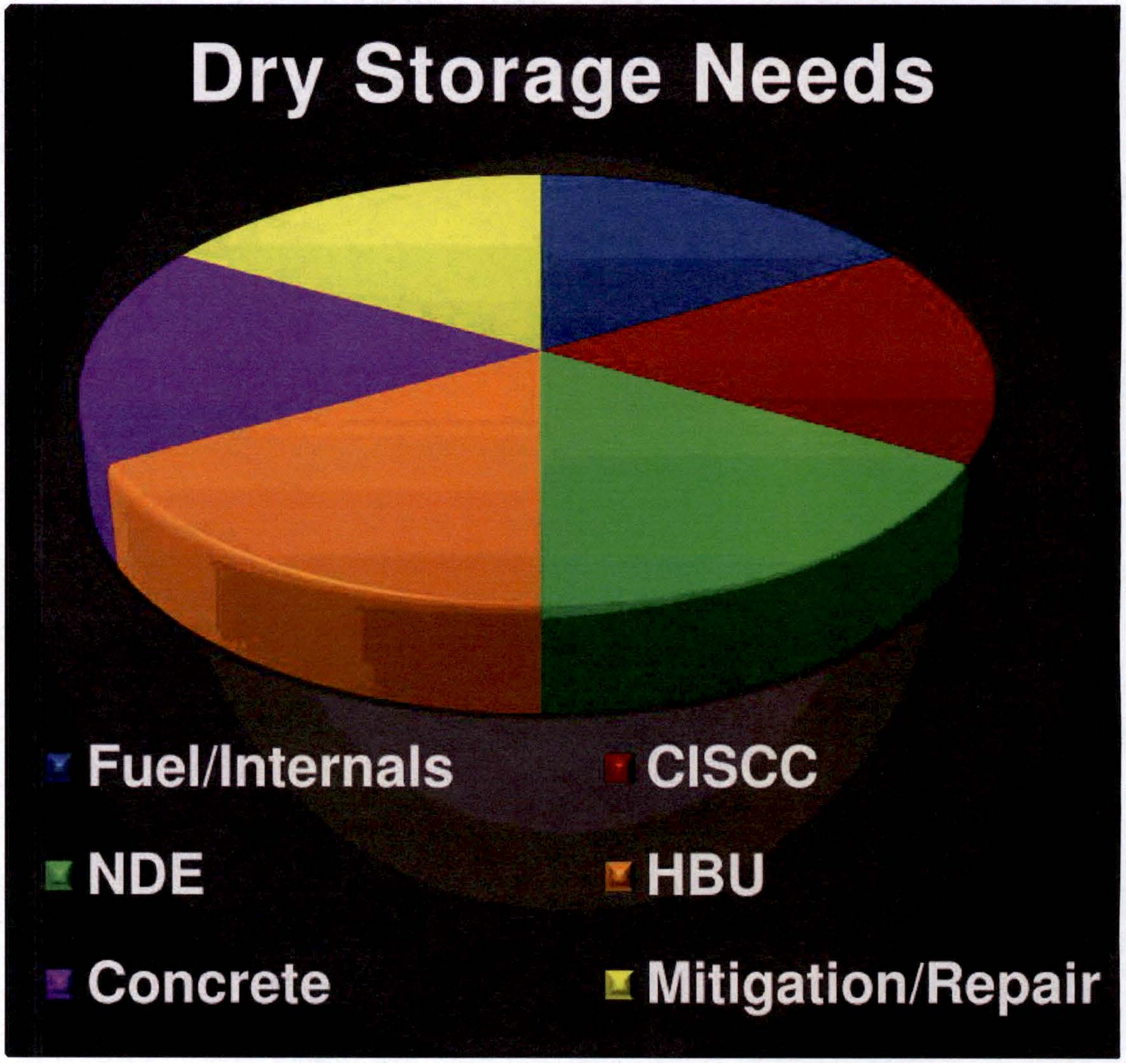
NDE for Dry Canister Storage System Inspection

Jeremy Renshaw
Senior Technical Leader

ESCP Meeting
4 May 2015

Introduction

- Dry canister storage systems (DCSS) have many needs for extended use
  - One of these needs is Nondestructive Evaluation (NDE)
- EPRI is working together with other entities to provide inspection options for DCSS
  - EPRI is working on inspection options jointly with the ESCP NDE subcommittee

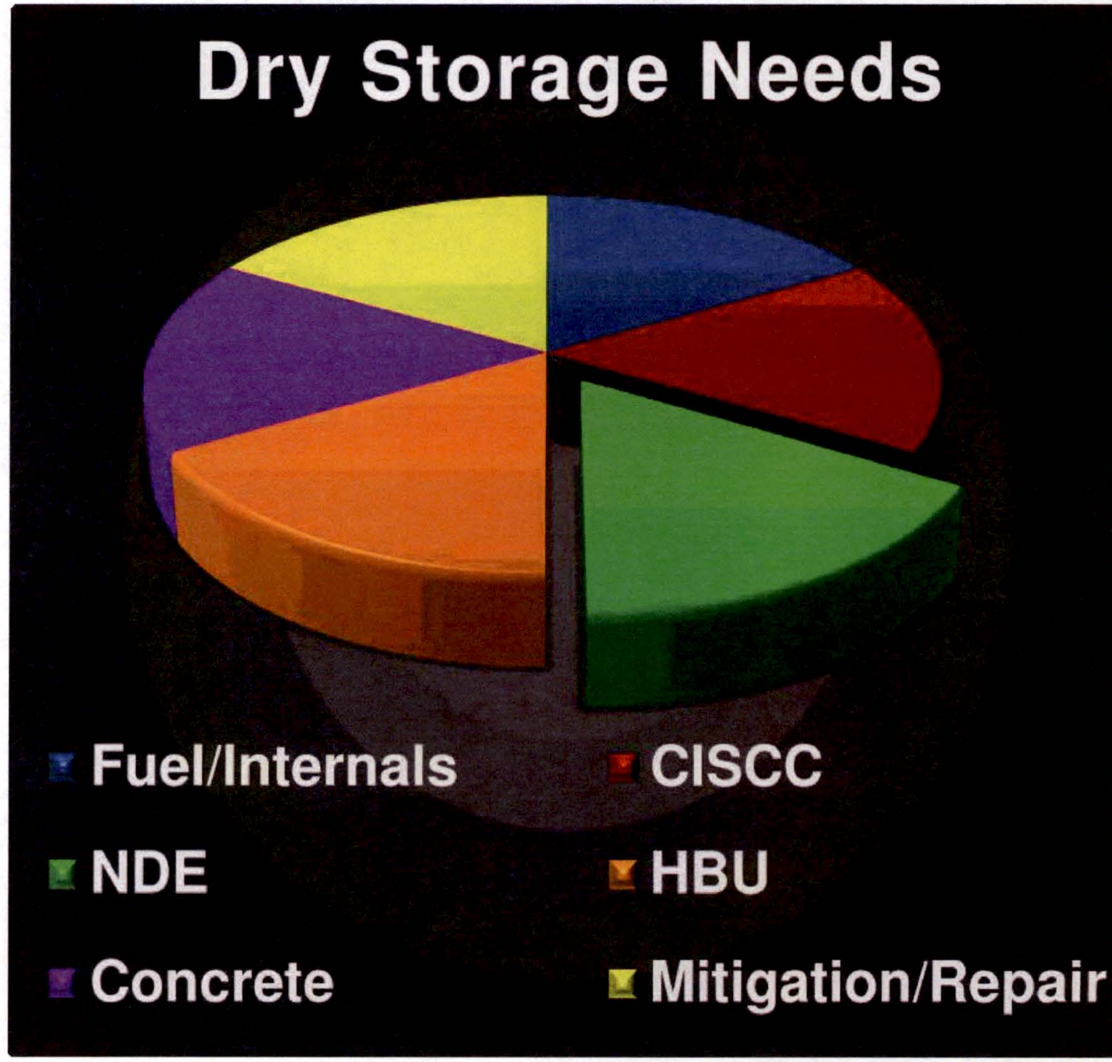


EPRI ELECTRIC POWER RESEARCH INSTITUTE

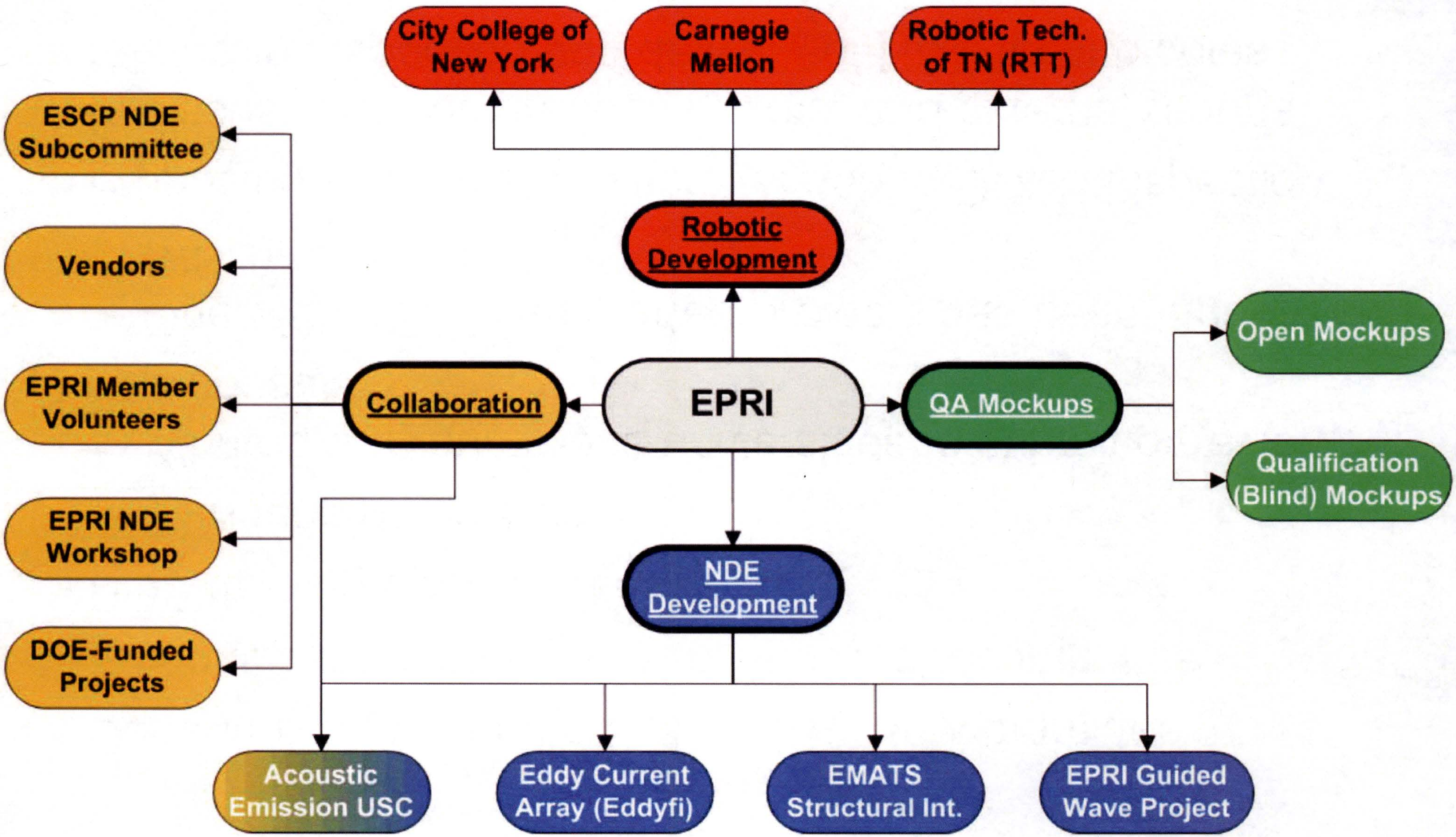
The NDE Piece of the Pie

- NDE is critical for extended operation
- EPRI is focusing on 4 main areas
  - Collaborations
  - Mockups
  - NDE Technologies
  - Delivery Systems

Goal: Develop Capability to Detect a Part-Wall Crack



Project Outline



EPRI Collaborations

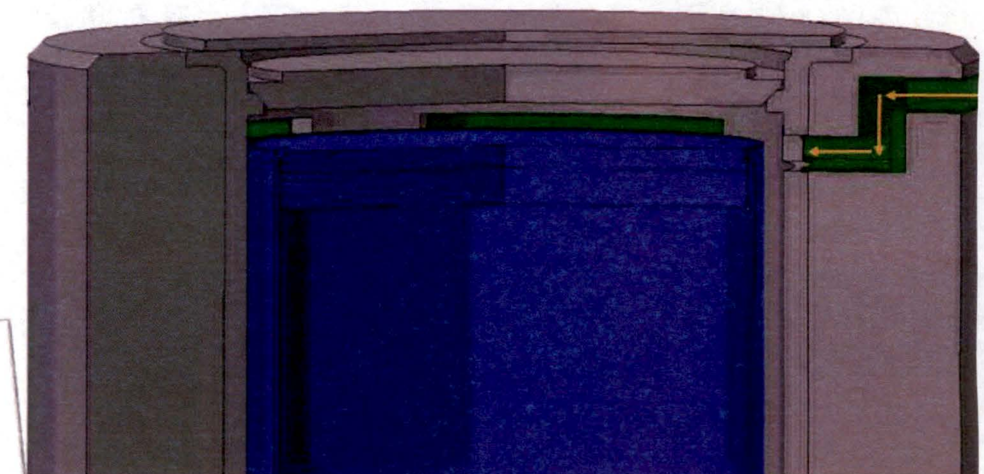
- Communication via the ESCP NDE Subcommittee
  - Significant interaction with CISCC subcommittee
- DOE funding opportunities
  - $3M funding awards
  - Worked with numerous universities to submit or review proposals
  - One of the EPRI-supported projects has been funded (PSU)
- Proposing additional projects related to DCSS inspection
- In discussions with various internal and external groups related to inspection and delivery of NDE technologies

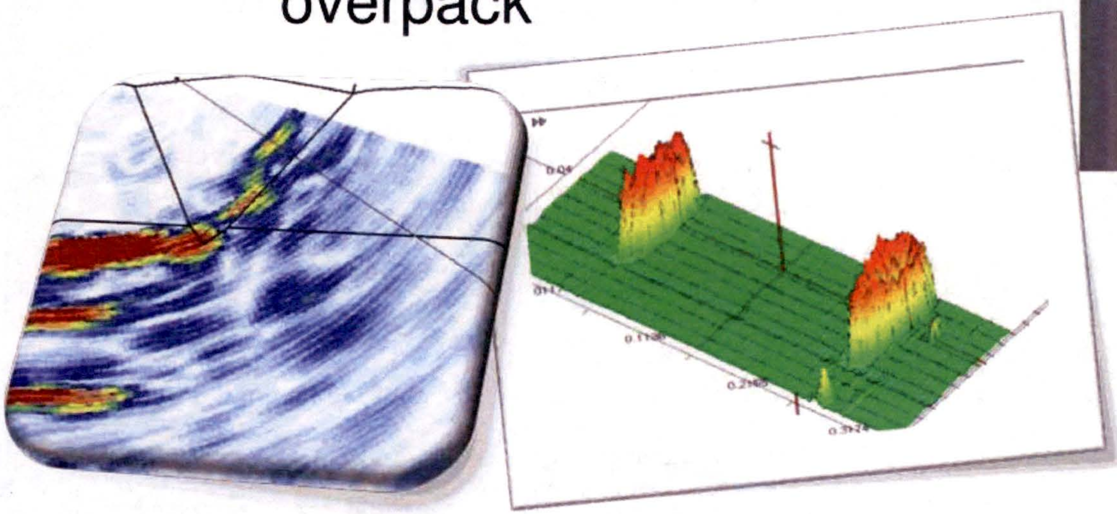
EPRI Mockups

- Existing mockups around the country have been identified
  - None have flaws
  - Some cannot have flaws
  - Some sites have canisters only and others have the overpack as well
- EPRI has been working with flaw mockup manufacturers to build **<u>8 QA flaw mockups</u>** for industry use.
  - Flaws of interest primarily in and around the weld
  - All mockups completed, 4 have been released
  - Available for open technique development

NDE for DCSS

- DCSS present potentially challenging conditions for NDE
  - Radiation dose from 1-10,000 R/hr
  - "Typical" temperatures from ~70-176+°F (~21-80+°C)
    - Possibly up to ~250°F (~120°C) or higher
  - Challenging access
    - Small vent ports for access
    - Narrow annulus between canisters and concrete overpack

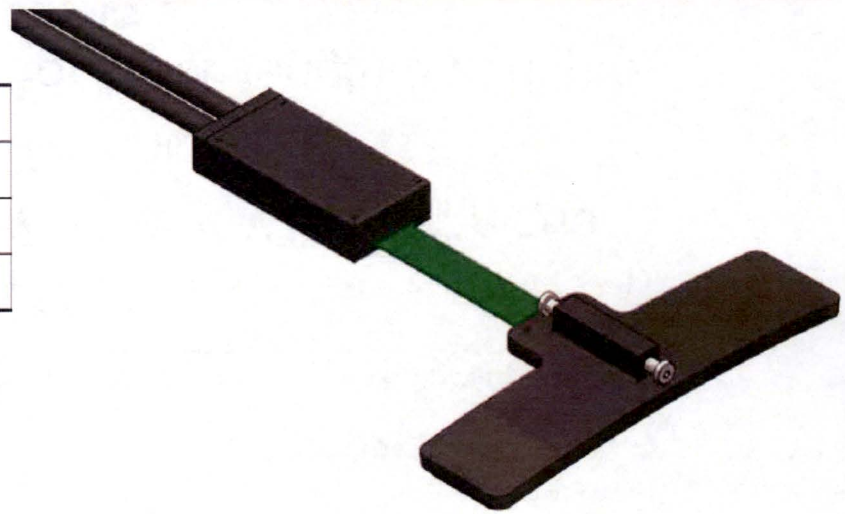




Qualitative Overview of NDE Techniques

NDE Technique	Temperature Resistant	Radiation Resistant	Small Form Factor	Sensitive to ODSCC	Compatibility for DCSS Inspection	Time to Delivery
Visual (VT)						
Eddy Current Testing (ECT)						
Ultrasonic Testing (UT)						
EMAT/Guided Waves (GW)						
Acoustic Emission (AE)						
X-ray (RT)						
Penetrant Testing (PT)						N/A
Thermography						
Muon Imaging						

Now		Not Applicable
< 1 year		Good Performance / Yes
< 3 years		Fair Performance / Maybe
4+ years or N/A		Poor Performance / Not Well Suited



Desire is to have qualified NDE techniques, such as UT or EC

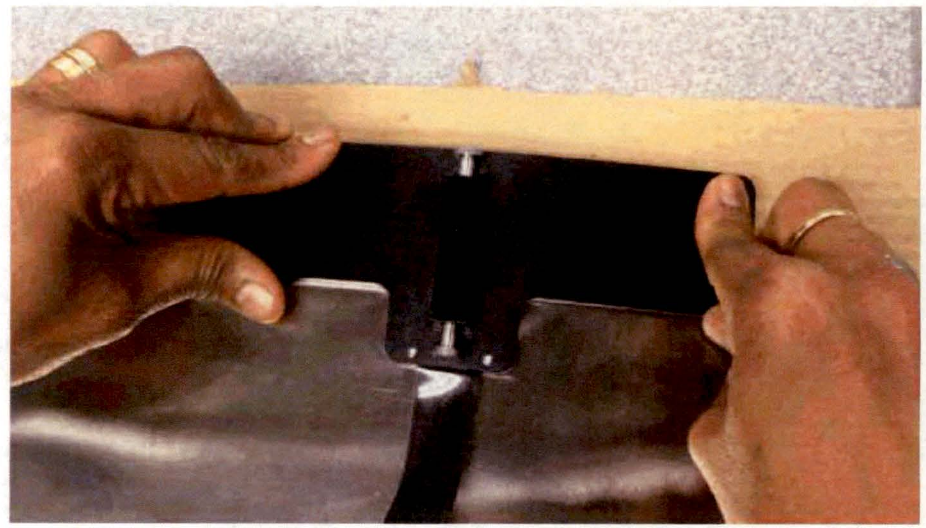
NDE Techniques Under Development at EPRI

EPRI Projects

- Eddy Current
  - Eddy current array probe to be complete and tested
- Acoustic Emission
  - Project underway with USC
- Guided Waves (GW)
  - High frequency GW using EMATS with Structural Integrity (inspection)
  - EPRI project using lower frequency GW inspection (monitoring)
- Supplement above inspections using visual imaging (not VT)

Vendor Development Needs

- Visual Techniques
  - VT-1 and VT-3 techniques
- UT Techniques
  - For crack length and depth sizing



EPRI ELECTRIC POWER RESEARCH INSTITUTE

Plate SS-CAN-05 with Pitting

- Visual detection of pitting in the SS canister sample is shown to the right with red arrows
- The sample also included implanted flaws
  - Simulated cracks are identified with blue circles

= Simulated Cracks

= Pitting

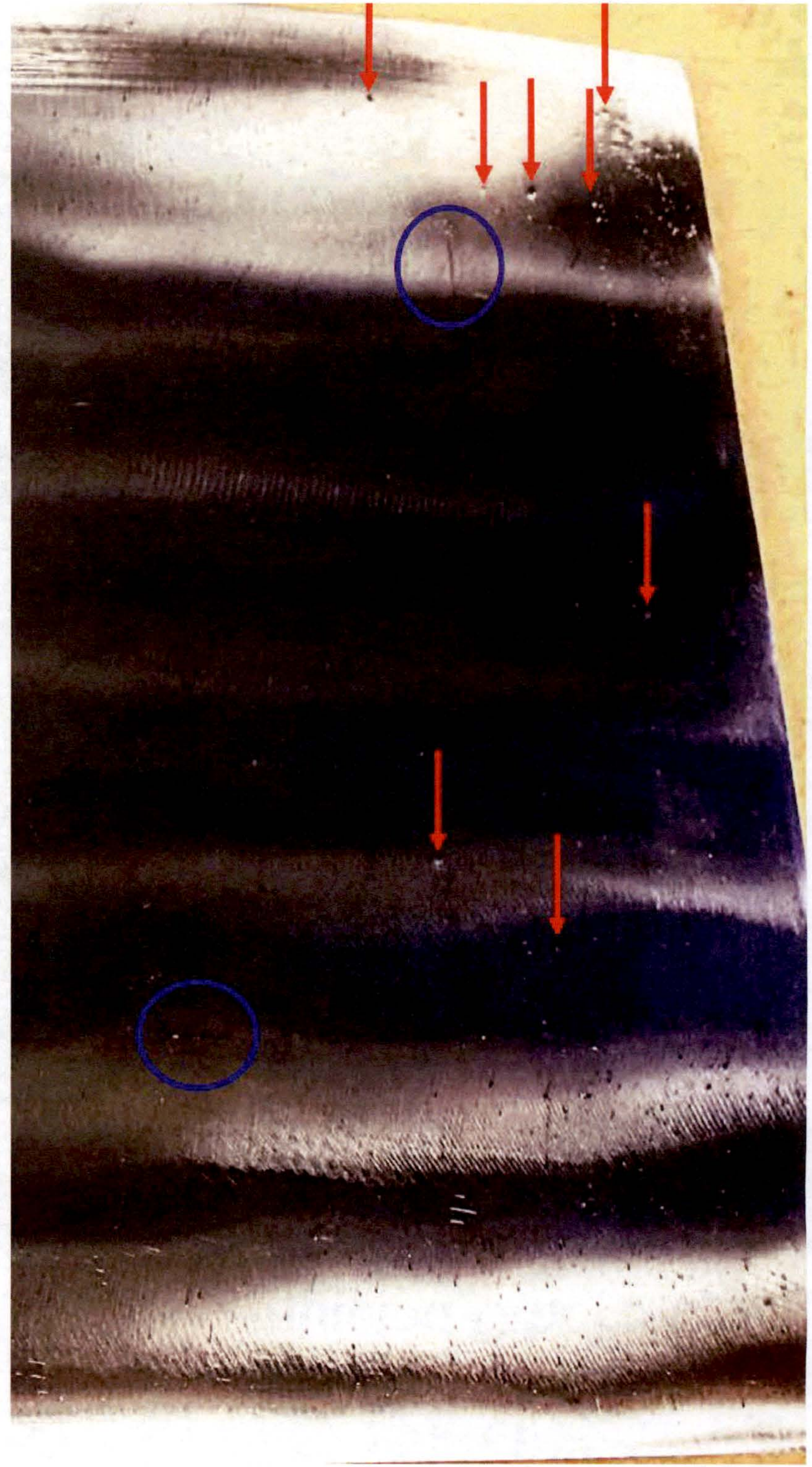
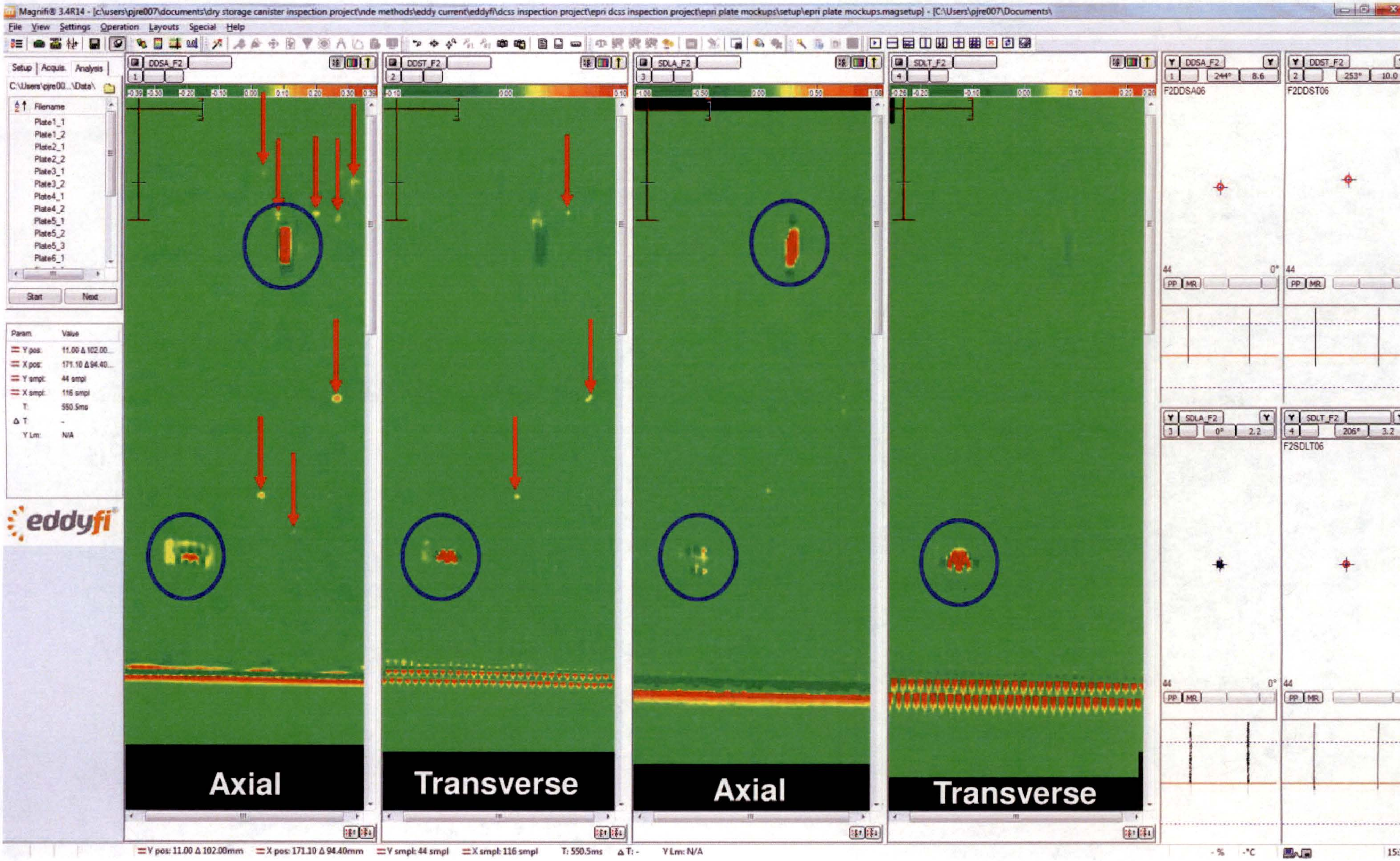


Plate SS-CAN-05, Scan 1 OD with pitting at f2 (250 kHz)

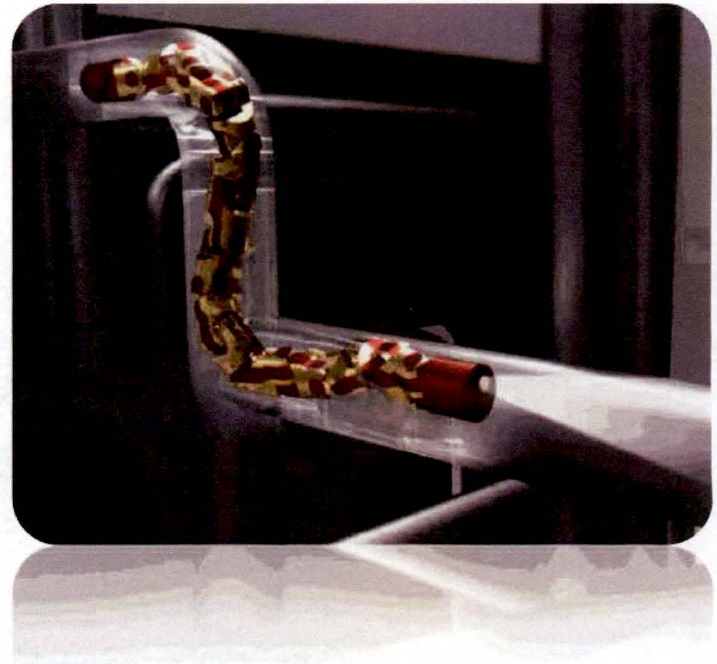
= Pitting Detected

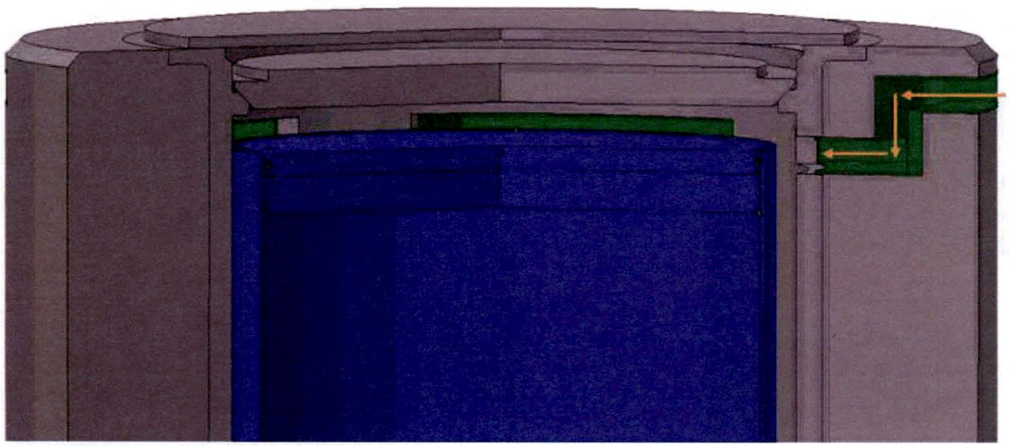
= Simulated Cracks

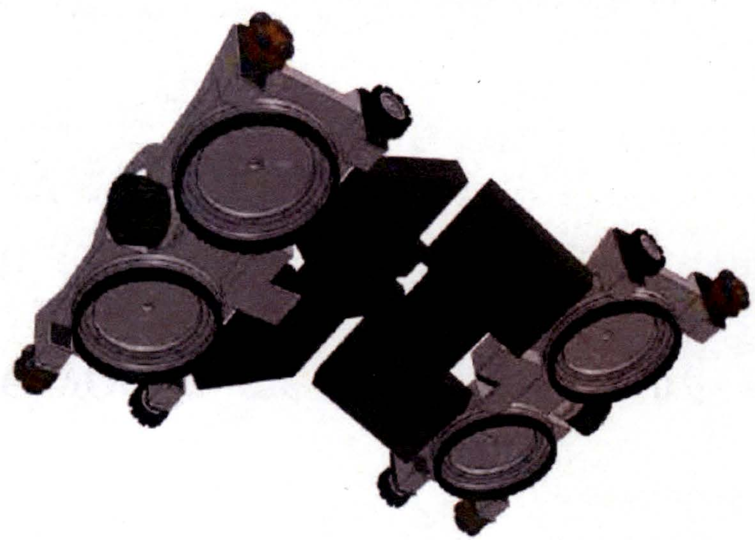


NDE Delivery

- No techniques are available for inspection delivery today
- Challenges: high temperature, high radiation, and confined space
- Delivery challenge anticipated to be the most difficult



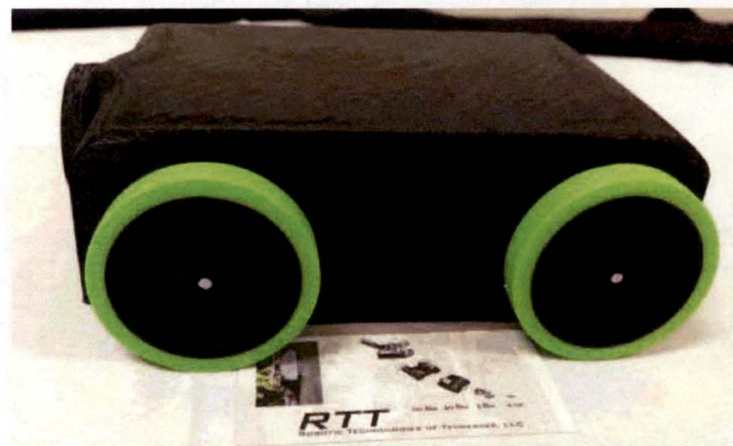




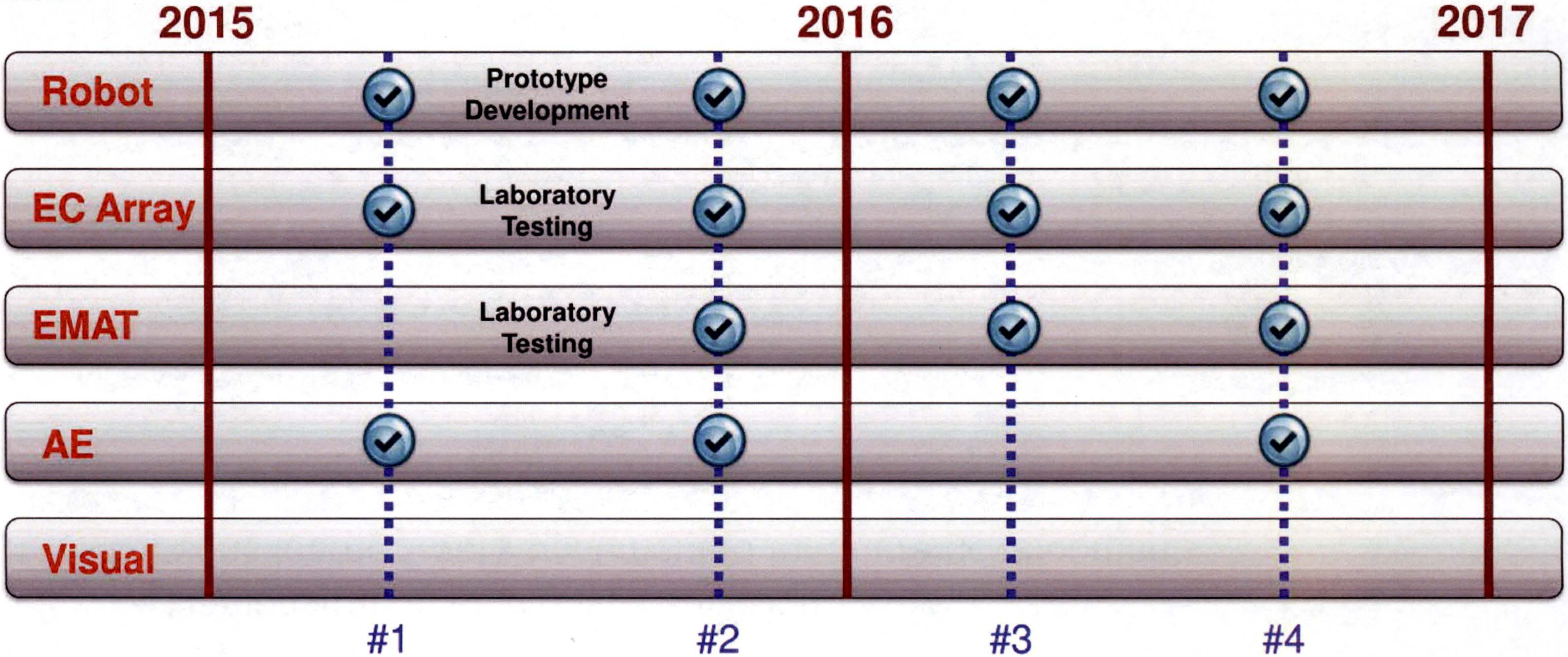
EPRI | ELECTRIC POWER RESEARCH INSTITUTE

NDE Delivery

- EPRI initiated an RFP for robotic delivery systems and relevant NDE for canisters
  - Many responses, 2 proposals awarded (1 robotic, 1 NDE)
- Working with RTT on robotic delivery concepts
  - Two preliminary designs are below



DCSS Inspection Timeline



Proposed Approach:

1. Testing at a vendor site - **COMPLETE**
2. Testing at Palo Verde mockup – **Sept 2015**
3. Test on an unloaded canister
4. Temperature testing and field preparation

EPRI welcomes utility participation
Technology transfer to the industry is the goal

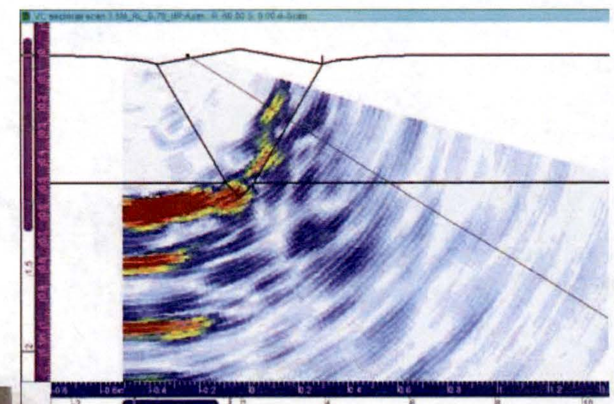
EPRI ELECTRIC POWER RESEARCH INSTITUTE

Walking the Talk

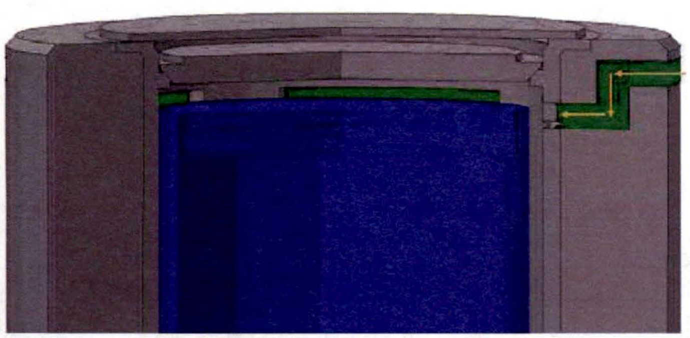
- First robotic and NDE demonstration was completed successfully with a cask vendor
  - Demonstration of first operational robotic prototype carrying an NDE payload (eddy current array)
  - Demonstration of acoustic emission
- Lessons learned were documented for future development

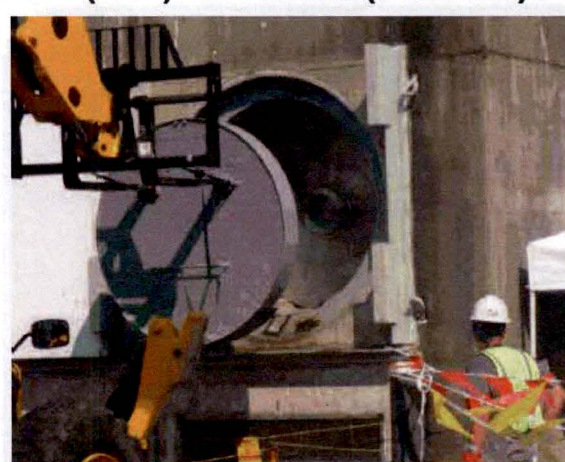
Summary

- EPRI is working towards solutions to the DCSS inspection issue via:
  - Collaboration – Working with many organizations and communicating via the ESCP NDE Subcommittee
  - Mockup Fabrication – 8 Mockups fabricated and open for industry use for technique development
  - NDE Development – Eddy current, EMAT, and Acoustic Emission work are ongoing
  - Robotic Delivery – First prototype and demonstration complete, additional development and demonstrations to follow – volunteers welcome!

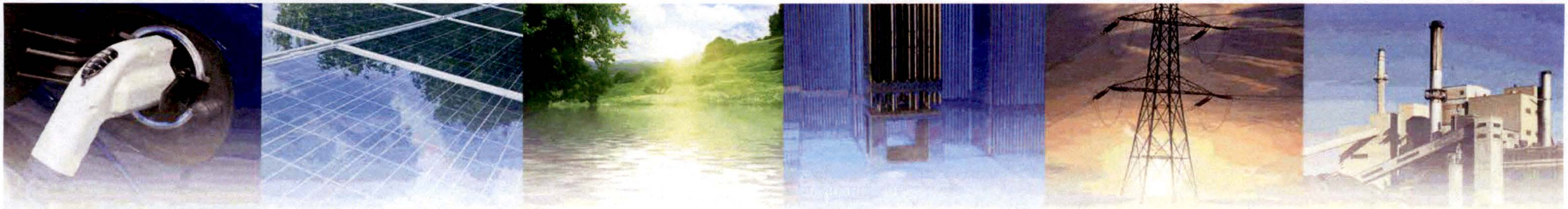


- NDE Subcommittee provides monthly updates with the latest information
  - Meeting is on the 1st Thursday of each month from 11:00-11:30 EST
  - **Toll-Free Number: +1 (888) 236-5213 OR (707) 927-0858 (non-US)**
  - **Participant PIN: 9990781**





EPRI | ELECTRIC POWER RESEARCH INSTITUTE



EPRI | ELECTRIC POWER RESEARCH INSTITUTE

Together...Shaping the Future of Electricity

From: Nicholson, Thomas
Sent: 16 Sep 2015 21:52:48 +0000
To: Tateiwa, Kenji
Cc: Stahl, Eric;andrew.Szilagyi@em.doe.gov;'Jacoff, Adam S.'
Subject: Information request for robotic engineers at IRID

Kenji:

Can you identify some of the robotic engineers at IRID who you know and who would be good presenters at our workshop?

I will pass on your response to Mr. Ito at the Japanese Embassy.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

From: Nicholson, Thomas
Sent: 29 Jul 2015 00:11:42 +0000
To: Tateiwa, Kenji
Cc: judd@nuvisioneng.com;andrew.Szilagyi@em.doe.gov;Jacoff, Adam S.;Abu-Eid, Boby;Marksberry, Don;Gilbertson, Anders;Saidi, Kamel S.;Zhaochang.Zeng@cnsc-ccsn.gc.ca
Bcc: Correia, Richard;Coyne, Kevin;West, Steven
Subject: July 28, 2015 draft Workshop Prospectus for review and updating
Attachments: WorkshopProspectus.July-28-2015.docx

Kenji:

Thank you so much for participating in today's *ad hoc* meeting to help finalize the workshop prospectus. We are hoping to complete the missing information such as the new date for the workshop, and possible additional sponsors before we circulate the workshop prospectus. We plan one last review of the workshop prospectus next week before agreeing to circulate.

I am forwarding the attached draft developed today which will be completed by next Tuesday, August 4th. We made significant modifications such as the new "Key Outcomes" which we hope will assist you in convincing TEPCO and JAEA to participate.

We began developing the workshop agenda. Please note our modifications to Session 2 which focuses on the lessons learned from the deployment of robots at Fukushima Daiichi. We are requesting you to consider being the co-chair of Session 2, and to identify a colleague in JAEA to be your co-chair. If needed, please make modifications to the questions in Session 2 to help motivate TEPCO and JAEA participation.

We will keep you informed as we move forward.

Thanks .... Tom

Outside of Scope

International Workshop on the Use of Robotics and their Application at Nuclear Facilities ~~and other Hazardous Environments~~

TBD~~December 1,~~ 2016~~5~~, 1:00 – 5:00 p.m. (EST)
TBD~~December 2 – 3,~~ 2016~~5~~, 9:00 a.m. – 5:00 p.m. (EST)

National Institute of Standards and Technology
Green Auditorium, Building 101
100 Bureau Drive, Gaithersburg, MD, 20899

Organizational Sponsors

NIST

U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

Sponsors:

Workshop Information

The U.S. Nuclear Regulatory Commission's (NRC's) Office of Nuclear Regulatory Research (RES); National Institute of Standards and Technology (NIST); U.S. Department of Energy (DOE); U.S. Department of Homeland Security (DHS); and other sponsors to be announced have developed this prospectus for convening the "International Workshop on the Use of Robotics and their Application at Nuclear Facilities ~~and other Challenging Environments.~~" during operation, emergency response and post-accident decommissioning.

Audience: Designers, developers, operators and users of robotics at nuclear facilities and other challenging and hazardous environments, and robotic engineers from industry, academia, research institutes and government agencies.

Workshop Objectives

The purpose of the workshop is to inform, discuss and assess past, present and anticipated future uses of robotics at nuclear facilities. Technical exchange of experiences using (b)(6) robots in challenging environments such as the Martian exploration, deep-sea surveys and adverse, hazardous-conditions for humans will be sought. The specific objectives will be:

- Facilitate the sharing of information between Federal agencies, industry and academia on the present use of mobile robotics for monitoring, sampling and other surveillance functions for a range of air, water and material conditions within critical infrastructures.
- Seek ideas and insights on possible ways to develop robotics to execute complex tasks for assessing severe nuclear accidents and reporting conditions within critical infrastructures.
- Identify strategies for using robotics to examine, identify and recover radioactive materials such as fuel rods from damaged nuclear facilities.
- Adapt current mobile robotics used in non-nuclear applications to nuclear facility applications.
- Establish realistic plans to test both the robots and their operators for a range of nuclear facility scenarios.
- Discuss the development of standards for evaluating robots, strategies, their implementation and operating systems for robotics in nuclear facilities.
- Identify "game-changing" opportunities to facilitate the use of robotics in the nuclear industry.

The workshop is designed to facilitate technical exchange of lessons learned from historic nuclear applications and experiences (e.g., Three-Mile Island and Fukushima Daiichi); ongoing research; and other relevant applications (e.g., NASA's Martian Exploration Rovers – Spirit and Opportunity).

~~For detailed background information on robotic applications and databases, please see "Weblinks".~~

Key Outcomes Sought

- **Knowledge:**
  - A better understanding of the state of robotics and remote systems and their potential applications to nuclear facilities
  - Introduction to existing databases or compendiums of robots and remote systems for nuclear applications
  - Ideas or strategies for enhancing existing databases or compendiums with quantifiable and verifiable performance data
  - A use-case for using consensus standard test methods to assess performance in order to guide development, procurement and training

- **Development, Testing and Evaluation:**
  - Proposed approaches for using consensus standard test methods to assess performance in order to guide development, procurement and training for nuclear applications
    - Host competitions, challenges, and technology incubators
    - Identify best-in-class contributing technologies (e.g., sensors, mobility, manipulators, NDE or other tools)
    - Conduct comprehensive testing in standard test methods to establish reliability and gain confidence
    - Iterate proposed solutions through validated simulations of standard test methods and mockups
    - Deploy proposed solutions into physical mockups and testbeds

- **Adoption and Implementation:**
  - A proposed end-user strategy for setting thresholds of capabilities (measured within standard test methods) necessary for deployment
  - A regulatory approach for technical review of proposed strategies for integrating technology, standards, training and regulations to address implementation

- **Summary of the key insights** drawn from presentations and panel discussions

~~**Focus**~~

~~The workshop will focus on the following robotic applications:~~
~~*Response Robotics for Nuclear Facilities:*~~

~~Security~~
~~Reconnaissance~~
~~Decontamination and decommissioning (D&D)~~
~~Monitoring (storage of nuclear materials)~~

~~Surface-Based Mobil Robotic Activities:~~

~~Establish access to critical areas for inspection~~
~~Create virtual geometries of critical infrastructures through visual and thermal imaging~~
~~Map infrastructures for 2-D and 3-D modeling~~
~~Sensor Monitoring (Reconnaissance) to determine internal environmental conditions~~
~~Sampling of air, water and materials through sampling ports~~
~~Confirm internal conditions for simulation of environments~~
~~Identify leaks of infrastructures~~
~~Maintaining power input and data recovery via tethers~~
~~Grasp/cut/remove capabilities~~
~~Emergency response to provide cooling water and diesel fuel to safety systems~~
~~Boring/drilling for venting in both the horizontal and vertical directions~~
~~Wall building for shielding "shines"~~
~~Inspection of contaminated water tanks (1000+ tanks)~~
~~Wiping or other decontamination~~
~~Access via doors/hallways/portals~~
~~Dispensing decontamination agents~~
~~Inspect external torus containment structure~~

~~*Aquatic Robotics Activities:*~~

~~Inspect and sample spent fuel pools and tanks~~
~~Leak detection and sealing~~
~~Inspect and identify leaks from water treatment and storage facilities including filter exchanges~~
~~Inspect and mitigate internal torus containment structure~~

~~*Aerial Robotics Activities:*~~

~~Hover within limited distance for visualizing infrastructures~~
~~Sample atmospheric conditions outside nuclear containment structures~~
~~Sample internal environments within tanks and large infrastructures~~

Workshop Structure

The workshop will be divided into five sessions (afternoons and mornings). Each session will focus on a technical theme. The proposed themes and questions to be addressed are:

Session 1: Overview of Challenges and Opportunities for the use of Robotic Technologies at Nuclear Facilities

Co-Chairs: Andy Szilagyi, DOE and Adam Jacoff, NIST

~~**Session 1: Identification and Integration of Existing Robotic Technologies to Address Current Challenges**~~

P~~Keynote p~~resentations to address the following ~~questions~~:

- What is the current-state-of-the-practice in applying robotic technologies to challenges at nuclear facilities and other hazardous environments?
- What are the opportunities to use robotic technologies for enhanced outcomes?
- What are the possible future uses of robotics at nuclear facilities?
- A use-case for using consensus standard test methods to assess performance in order to guide development, procurement and training

Contributed presentations to inform the audience on established or developing databases of robotic technologies and their applications, and how they have been integrated into successful monitoring and remediation programs.

At the end of the session, there will be demonstrations of the databases and example robotic exercises at the NIST Robot Test Facility (http://www.nist.gov/el/isd/ms/roboticsbldg.cfm).

Session 2: Lessons Learned Related to Robot Deployment at Fukushima Daiichi

Co-Chairs: Kenji Tateiwa, TEPCO and _______________, JAEA

Presentations ~~Keynote presentation~~ to address the following questions:

- What robotic applications have been developed and applied to survey and assess challenging conditions within the damaged reactors and auxiliary support structures?
- What lessons were learned in developing and applying these robotic technologies?
- How were complex conditions and challenging environments negotiated by the adaptive robotic technologies?

- How were cleanup objectives, including worker safety, met by using these robotic technologies?

Contributed presentations to provide examples of the challenges encountered and successes achieved during the deployment of robots at Fukushima Daiichi?

Session 3: Industry and Government Experiences in Applying Robotic Technologies to Existing Challenges

Co-Chairs: Matt Marston, UCOR and ________, _____

~~Keynote P~~presentations to address the following questions:

- What were the challenges encountered in identifying and applying robotic technologies?
- What insights and lessons were learned in the development and application of these robotic technologies (e.g., Three-Mile Island clean-up)?
- How were complex conditions and challenging environments negotiated by adaptive robotic technology?
- What challenges remain for applying robotic technologies at nuclear facilities and other hazardous environments?

Contributed presentations to provide examples of the challenges and successes in applying robotic technologies?

Session 4: Ground-Breaking, Innovative Technologies and New Developments

Co-Chairs: Gill Pratt, DARPA and ________, DOE National Lab (?)

Presentations ~~Keynote presentation~~ to address the following questions:

- What are the ground-breaking, innovative technologies and new developments to enhance the functionality of robotics at nuclear facilities?
- What are the regulatory and procedural challenges which need to be addressed?
- What are the complex conditions and challenging environments which need to be negotiated by adaptive robotic technologies?
- What are the challenges for further development of new robotic strategies and tools, over the next 5 – 10 years, to meet nuclear facility needs?

~~What are the regulatory and procedural challenges which need to be addressed?~~

Contributed presentations to provide examples of the ground-breaking, innovative technologies and emerging robotic technologies?

Session 5: Robotic Technology Testing; Operator Training and Certification; and Regulatory Standards Development

Co-Chairs: Phil Mattson, DHS and __________, ASTM, ANSI/ANS or ASME

Presentations ~~Keynote presentation~~ to address the following questions:

- Where and how are robots tested?
- Where and how are robotic operators trained?
- How can these testing and training programs be incorporated into a certification program recognized by industry and government?
- How do industry-developed standards (e.g., American Society for Testing and Materials) gain regulatory acceptance?
- What are the regulatory and procedural challenges ~~which~~that need to be addressed?

Contributed presentations providing examples of the robotic technology testing, operator training and proposed regulatory acceptance criteria?

Each session will have two co-chairs. The session will begin with a 30 minute keynote presentation followed by 20-minute contributed presentations. At the end ~~of each~~ sessions 2 through 5, there will be a panel discussion moderated by the session co-chairs. The panel will consist of the presenters and invited experts who will answer questions from the audience on lessons learned in robotic applications; identified databases; and possibilities for future nuclear applications.

The workshop organizing committee is seeking lessons learned from a wide range of international applications at nuclear facilities such as the Three-Mile Island, Chernobyl and Fukushima Daiichi decontamination and decommissioning activities.

The workshop will be open to the public to encourage industry participation.

Workshop Contacts:

Workshop Co-Chairs: Thomas Nicholson, NRC/RES Thomas.Nicholson@nrc.gov
Andrew Szilagyi, DOE-EM Andrew.Szilagyi@em.doe.gov
Adam Jacoff, NIST adam.jacoff@nist.gov

~~**Workshop Registration and Logistics: NIST Conference Coordinator**~~

Organizing Committee Members: Thomas Nicholson, Don Marksberry, Anders Gilbertson, Boby Abu-Eid, Jack Parrott and Bob Bernardo, U.S. NRC; Andrew Szilagyi, DOE-EM; Adam Jacoff and Kamel Saidi, NIST; Laurie Judd, NuVision Engineering; Kenji Tateiwa, TEPCO; Rob Buckingham, UKAEA -RACE; Philip Mattson, Department of Homeland Security; and others to be announced (e.g., DARPA, NASA, U.S. Navy)

Workshop Registration and Logistics: NIST Conference Coordinator

Registration: All attendees must complete and submit a registration form and pay a $71 registration fee one week prior to the workshop. This form will become available in early November 2015 on the NIST Public Website under "International Workshop on the Use of Robotics at Nuclear Facilities."

Weblinks: NIST events page TBD

~~NIST Robot Testing Facility~~
~~http://www.nist.gov/el/isd/ms/roboticsbldg.cfm~~

~~Defense Advanced Research Projects Agency (DARPA) Robotics Challenge~~
~~http://www.theroboticschallenge.org/~~

~~DOE Science Showcase – DOE Advanced Robotics~~
~~http://www.osti.gov/home/robotics.html~~

~~TEPCO's website on the use of robotics at Fukushima Daiichi:~~
~~http://www.tepco.co.jp/en/decommision/principles/robot/index-e.html~~

~~IAEA "Catalogue of methods, tools and techniques for recovery from fuel damage events" with example of mini-rover submarine used to inspect and defuel the TMI Unit 2 pressurizer (p. 115)~~
~~http://www.iaea.org/inis/collection/NCLCollectionStore/_Public/23/014/23014980.pdf~~

Page 1617 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1618 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1619 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
Sent: 18 Jun 2015 22:38:17 -0400
To: Tateiwa, Kenji
Subject: Last Call from DC [TEPCO Weekly Fukushima Update Call] Fri, June 19, 2015 at 3pm EDT
Importance: Normal

Nuclear Sector Colleagues,

Tomorrow will mark the last Weekly Fukushima Update Call that I will conduct from DC.

After spending almost 4 years, I will be departing DC on June 27 and start working at TEPCO's Tokyo HQ on July 1 as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I will endeavor to continue this call from Tokyo, albeit at a less frequent basis.
I will send out a notice for the next call once I settled into my new position.

Thank you for your continued support to TEPCO and for your interest in the progress at Fukushima Daiichi.
I look forward to keeping in touch.

[Date/time]
Fri, June 19, 2015 at 3 pm Eastern Daylight Time
(**Date/time of next call to be determined**.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Cabinet-Level Meeting on Decommissioning and Contaminated Water Issues (6/12/2015)
(only in Japanese)
1-1. Outline of Revised Mid-and-Long-Term Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150612_03-j.pdf

1-2. Revised Mid-and-Long-Term Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150612_05-j.pdf

1-3. Revised Schedule for Defueling of Units 1-3 SFPs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150612_04-j.pdf

2. Summary Progress at Units 1-4 (6/12/2015)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150612_04-j.pdf

3. Transition of Different Types of Contaminated Water Stored in Tank Farms (6/12/2015)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150612_05-j.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

(Feel free to forward this email to your colleagues or have them contact me to be added to the distribution list.)

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)
tateiwa.kenji@tepco.co.jp
(Email address will remain unchanged after my transition to Tokyo.)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 04, 2015 10:21 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 5, 2015 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 5, 2015 at 3 pm Eastern Daylight Time
(**No Call Next Week.** Next call will be on **Fri, June 19** at 3 pm EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. NRA Special Facilities Monitoring and Evaluation Committee (5/22/2015)
(only in Japanese)
1-1. Closure of Seawater Piping Trenches of Units 2, 3, 4
http://www.nsr.go.jp/data/000107869.pdf

1-2. Water Collected on Lid of High-Intensity Container Inside a Box Culvert
http://www.nsr.go.jp/data/000108101.pdf

1-3. Groundwater Inflow Mitigation Measures and Water Level Management
http://www.nsr.go.jp/data/000107730.pdf

2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (5/25/2015)
(only in Japanese)
2-1. Water Contamination Monitoring Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150525_03-j.pdf

2-2. Status of Unit 1 Reactor Building Cover Dismantling

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150525_04-j.pdf

2-3. Status Report on Identification of Risk Factors Related to Off-site Radiological Impact
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150525_07-j.pdf

2-4. Preparation for Disclosure of All Radiological Data
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150525_08-j.pdf

2-5. Status Report on Various Issues (146 pages, 19 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150525_13-j.pdf

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (5/28/2015)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_04-j.pdf

3-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_05-j.pdf
(English translation as of 4/30/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150430_01-e.pdf

3-3. Unit 1 Drywell Water Level Measurement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_06-j.pdf

3-4. Contaminated Water Treatment *(file size: 11 MB)*
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_07-j.pdf

3-5. Environmental Radiation Issues *(file size: 15 MB)*
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_08-j.pdf

3-6. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_10-j.pdf

3-7. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_11-j.pdf

3-8. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_12-j.pdf

3-9. Draft Revision of Mid-to-Long Term Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150528_13-j.pdf

4. Leakage of Contaminated Water from Transfer Hose (6/1/2015)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150601_06-j.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

(Feel free to forward this email to your colleagues or have them contact me to be added to the distribution list.)

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 21, 2015 9:21 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 22, 2015 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 22, 2015 at 3pm Eastern Daylight Time
(**No Call Next Week.** Next call will be on **Fri, June 5** at 3pm EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. IAEA Peer Review Mission Report #3 (5/14/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2015/images/handouts_150514_01-e.pdf

"IAEA Issues Report on Fukushima Decommissioning Review" (IAEA Press Release)
https://www.iaea.org/newscenter/pressreleases/iaea-issues-report-fukushima-decommissioning-review

2. Fukushima Nuclear Accident Unresolved Issues Progress Report # 3 (5/20/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1250927_6844.html

(English Summary)
http://www.tepco.co.jp/en/press/corp-com/release/betu15_e/images/150520e0101.pdf

(Japanese Full Report: 503 pages, 27 MB)
http://www.tepco.co.jp/cc/press/betu15_j/images/150520j0102.pdf

3. High-Level Meeting of Decommissioning & Contaminated Water Issues Team (5/21/2015)
(only in Japanese)
3-1. Basic Policy regarding the Mid-and-Long-Term Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150521_05-j.pdf

3-2. Straw Man for the Mid-and-Long-Term Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150521_06-j.pdf

3-3. Enhanced Coordination on R&D Activities for Decommissioning and Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150521_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 07, 2015 9:07 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 8, 2015 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 8, 2015 at 3 pm Eastern Daylight Time
(**No Call Next Week.** Next call will be on **Fri, May 22** at 3 pm EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Drywell Internal Investigation by Transforming Robots: Summary of Findings (4/30/2015)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150430_01-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (4/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_05-j.pdf
(English translation as of 3/26/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150326_01-e.pdf

2-3. Contaminated Water Treatment *(file size: 14 MB)*
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_07-j.pdf

2-4. Environmental Radiation Issues *(file size: 17 MB)*
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_08-j.pdf

2-5. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_10-j.pdf

2-6. Preparation for Fuel Debris Removal

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_11-j.pdf

2-7. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_12-j.pdf

2-8. NDF's 2015 Technical Strategy Plan in Preparation for Revising the Mid-to-Long Term Decommissioning Roadmap ***(file size: 18 MB)***
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_14-j.pdf

2-9. Identification of Risk Factors Related to Off-site Radiological Impact
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_15-j.pdf

2-10. Preparation for Disclosing All Radiological Data
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_16-j.pdf

2-11. Government-Funded Demonstration Testing Results for 5 Contaminated Water Treatment Systems
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150430_17-j.pdf

3. Test Operation of Brine Circulation for Frozen Soil Wall (4/30/2015)
http://photo.tepco.co.jp/en/date/2015/201504-e/150430-02e.html

All the best,
Kenji

Page 1626 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1627 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1628 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1629 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1630 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1631 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1632 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1633 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1634 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1635 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1636 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1637 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1638 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1639 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1640 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1641 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1642 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1643 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1644 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1645 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1646 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1647 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1648 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1649 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1650 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1651 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1652 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1653 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1655 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1656 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1657 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1658 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 1 Aug 2015 05:25:59 +0000
To: 'tateiwa.kenji@tepco.co.jp'
Cc: Marksberry, Don;Correia, Richard;West, Steven;Gilbertson, Anders
Subject: Re: [External_Sender] Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Kenji

Thanks so much for reaching out to me

Yes, please keep me on your contact list for the briefings

Thanks. Tom

Sent from NRC Blackberry
Thomas Nicholson
(b)(6) [redacted]

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 09:47 AM
To: tateiwa.kenji@tepco.co.jp <tateiwa.kenji@tepco.co.jp>
Subject: [External_Sender] Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,

I hope this email finds you well.

A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.

I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)

Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.

[Date/time]
Mon, August 3, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: Mon, Aug. 31 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html

4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing

* *If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Nicholson, Thomas
Sent: 20 Feb 2015 22:41:09 +0000
To: Tateiwa, Kenji
Cc: West, Steven;Madden, Patrick;Correia, Richard
Subject: RE: [NIST Robot Test Facility Visit on Feb. 19] TEPCO Presentation and Reference Materials

Kenji:

It was an honor and privilege to incorporate you into our discussions at NIST.

Your presentations were outstanding. I have shared them with Steve West and Pat Madden who needed to leave the meeting early.

The use of robotics at Fukushima Daiichi was one of the main motivators in establishing this cooperative effort.

I look forward to working with you, Adam, Andrew, Phil and Kamel to make the workshop a reality.

Thanks so much .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, February 20, 2015 9:13 AM
To: 'Jacoff, Adam S.'; kamel.saidi@nist.gov; philip.mattson@hq.dhs.gov; Nicholson, Thomas; West, Steven; Parrott, Jack; Madden, Patrick; Aird, David; andrew.Szilagyi@em.doe.gov; koi@k.u-tokyo.ac.jp
Subject: [NIST Robot Test Facility Visit on Feb. 19] TEPCO Presentation and Reference Materials

Adam and all,

Thank you for providing us with an excellent tour of NIST's Robot Test Facility yesterday.
The following candid discussion with all of the participants was also very valuable.

Please find attached for your reference, my presentation on the Fukushima accident and use of robots.

Also attached is a notification email for my Weekly Fukushima Update Call that I have been hosting the past 3 years to inform interested experts on the current status of Fukushima Daiichi.
If any of you are interested, I would be happy to add you to the distribution list.

Below are additional information that you may find interesting.

[TEPCO's website on Robotics]
http://photo.tepco.co.jp/en/cat3/04-e.html
http://www.tepco.co.jp/en/decommision/principles/robot/index-e.html
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=raf8si47&catid=61795

[IRID Workshop]
http://irid.or.jp/en/reports/symposium/
(Presentation material on "Status of R&D Projects Related to Fuel Debris Retrieval" would be of most interest to you.)

Feel free to share any of the material in this email with your colleagues and do not hesitate to contact me should you have any questions.

Tom,
Thank you for making this tour and meeting happen.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116

(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: 'Jacoff, Adam S.' ; Nicholson, Thomas ; West, Steven ; Parrott, Jack ; Madden, Patrick ; Aird, David ; andrew.Szilagyi@em.doe.gov
Sent: Friday, February 13, 2015 2:59 PM
Subject: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?

Tom, Adam, and all,

I look forward to visiting the NIST Robotics Lab on Feb. 19th and discussing with you ideas on the robotics workshop.

Would it be useful if I gave a brief presentation on the current status of decommissioning at Fukushima Daiichi so that participants can get a better idea of what needs there are for robotics at the site?

If so, I will bring my laptop and be prepared to show you some relevant slides.
Let me know what you all think and I will prepare accordingly.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116

(b)(6)

Outside of Scope

Page 1664 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1667 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1668 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 13 Feb 2015 20:36:03 +0000
To: Tateiwa, Kenji;'Jacoff, Adam S.';West, Steven;Parrott, Jack;Madden, Patrick;Aird, David;andrew.Szilagyi@em.doe.gov
Subject: RE: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?

Kenji:

Yes, it would be great to hear from you.

You provided us with the following Website today:
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=raf8si47&catid=69631

On robotics which would be good to hear about.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, February 13, 2015 2:59 PM
To: 'Jacoff, Adam S.'; Nicholson, Thomas; West, Steven; Parrott, Jack; Madden, Patrick; Aird, David; andrew.Szilagyi@em.doe.gov
Subject: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?

Tom, Adam, and all,

I look forward to visiting the NIST Robotics Lab on Feb. 19th and discussing with you ideas on the robotics workshop.

Would it be useful if I gave a brief presentation on the current status of decommissioning at Fukushima Daiichi so that participants can get a better idea of what needs there are for robotics at the site?

If so, I will bring my laptop and be prepared to show you some relevant slides.
Let me know what you all think and I will prepare accordingly.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1670 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1673 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1674 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
Sent: 16 Feb 2015 12:49:49 -0500
To: 'Jacoff, Adam S.';Nicholson, Thomas
Cc: andrew.Szilagyi@em.doe.gov;Aird, David;Madden, Patrick;Parrott, Jack;West, Steven
Subject: Re: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?
Importance: Normal

Tom,

Thank you for your positive response.
I will prepare accordingly.

Adam,

Will I be able to bring my laptop to your facility and connect it to a projector?
If not, I will send you a file or url to be shown from your PC when we meet on Feb. 19th.

All the best,
Kenji

----- Original Message -----
From: Nicholson, Thomas
To: Tateiwa, Kenji ; 'Jacoff, Adam S.' ; West, Steven ; Parrott, Jack ; Madden, Patrick ; Aird, David ; andrew.Szilagyi@em.doe.gov
Sent: Friday, February 13, 2015 3:36 PM
Subject: RE: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?

Kenji:

Yes, it would be great to hear from you.

You provided us with the following Website today: http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=raf8si47&catid=69631

On robotics which would be good to hear about.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, February 13, 2015 2:59 PM
To: 'Jacoff, Adam S.'; Nicholson, Thomas; West, Steven; Parrott, Jack; Madden, Patrick; Aird, David; andrew.Szilagyi@em.doe.gov
Subject: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?

Tom, Adam, and all,

I look forward to visiting the NIST Robotics Lab on Feb. 19th and discussing with you ideas on the robotics workshop.

Would it be useful if I gave a brief presentation on the current status of decommissioning at Fukushima Daiichi so that participants can get a better idea of what needs there are for robotics at the site?

If so, I will bring my laptop and be prepared to show you some relevant slides.
Let me know what you all think and I will prepare accordingly.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1677 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Page 1679 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1680 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Nicholson, Thomas
Sent: 3 Sep 2015 16:10:56 +0000
To: Tateiwa, Kenji;Gilbertson, Anders;Burton, Thomas;Marksberry, Don;Bernardo, Robert;andrew.Szilagyi@em.doe.gov;kamel.saidi@nist.gov;'Jacoff, Adam S.';judd@nuvisioneng.com;'Buckingham, Rob';Parrott, Jack;Abu-Eid, Boby;'? ?'
Subject: RE: ANS D&RS and IEEE ICRA

Kenji:

Thanks. Yes, I will reach out to them.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, September 03, 2015 3:16 AM
To: Nicholson, Thomas; Gilbertson, Anders; Burton, Thomas; Marksberry, Don; Bernardo, Robert; andrew.Szilagyi@em.doe.gov; kamel.saidi@nist.gov; 'Jacoff, Adam S.'; judd@nuvisioneng.com; 'Buckingham, Rob'; Parrott, Jack; Abu-Eid, Boby; '原 貴'
Subject: [External_Sender] ANS D&RS and IEEE ICRA

Tom and all,

I was invited to speak at the last ANS Decommissioning and Remote Systems (D&RS) Conference held in June 2014 and gave a presentation on the use of robotics at Fukushima Daiichi.

I also gave a presentation at the IEEE International Conference on Robotics and Automation (ICRA) "Symposium on Robotic Solutions Toward Nuclear Decommission" back in May 2012.
http://www.icra2012.org/program/events.php

You may want to reach out to both professional organizations.
(Jim Byrne and Sue Aggarwal are key personnel for the ANS D&RS and I know both of them.)

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Outside of Scope

Page 1683 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
Sent: 17 Apr 2015 11:21:05 +0900
To: Nicholson, Thomas
Cc: 'Jacoff, Adam S.'
Subject: Re: early draft agenda for review and input

Tom,

Thank you for preparing the agenda.
It looks fine to me.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

On Thu, 16 Apr 2015 17:36:30 -0400
"Nicholson, Thomas" <Thomas.Nicholson@nrc.gov> wrote:

> Adam and Kenji:
>
> As I mentioned earlier, I wanted to send you the early draft agenda for your review and input.
>
> Please make any edits and additions you deem appropriate.
>
> I will send out the final tentative agenda tomorrow afternoon.
>
> Please send me your suggestions by noon tomorrow.
>
> Thanks .... Tom
>
> ***
> Thomas J. Nicholson, Senior Technical Advisor
> U.S. Nuclear Regulatory Commission
> Office of Nuclear Regulatory Research
> Mail Stop CSB 2-A07
> 11555 Rockville Pike
> Rockville, MD 20852
> Tel: (301) 251-7498
> Fax: (301) 251-7422
> E-mail: Thomas.Nicholson@nrc.gov
> ***

From: Nicholson, Thomas
Sent: 16 Apr 2015 13:43:07 +0000
To: Tateiwa, Kenji
Subject: RE: First organizational meeting to plan the November 2015 Workshop on the Use of Robotics at Nuclear Facilities

Kenji:

Thanks so much for sending the material.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Tuesday, April 14, 2015 10:00 PM
To: Madden, Patrick; West, Steven; Bernardo, Robert; Aird, David; koi@k.u-tokyo.ac.jp; andrew.Szilagyi@em.doe.gov; philip.mattson@hq.dhs.gov; kamel.saidi@nist.gov; 'Jacoff, Adam S.'; Nicholson, Thomas
Subject: Re: First organizational meeting to plan the November 2015 Workshop on the Use of Robotics at Nuclear Facilities

Tom and all,

Please find below links to the results of investigation inside Unit 1 drywell conducted on April 10th.

[Slides]
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2015/images/handouts_150413_01-e.pdf

[Photos and Video]
http://photo.tepco.co.jp/en/date/2015/201504-e/150413-01e.html

Although the robot unfortunately got stuck inside the drywell and had to be abandoned, we obtained invaluable data.

The same type of robot will be inserted into the drywell on April 15 at 9 am Japan time and will investigate clockwise inside the drywell.

[Slides: only in Japanese]
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150415_01-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Nicholson, Thomas

To: 'Jacoff, Adam S.' ; kamel.saidi@nist.gov ; philip.mattson@hq.dhs.gov ; andrew.Szilagyi@em.doe.gov ; koi@k.u-tokyo.ac.jp ; Tateiwa, Kenji ; Aird, David ; Bernardo, Robert ; West, Steven ; Madden, Patrick
Sent: Monday, April 13, 2015 1:02 PM
Subject: First organizational meeting to plan the November 2015 Workshop on the Use of Robotics at Nuclear Facilities

Adam, Phil, Kamel, Andrew and Kenji:

Thanks for your responses to my follow-up suggestion.

Yes, everyone has agreed to meet via teleconference on Tuesday, April 21st @1:30 p.m. EDST to discuss how we might organize the subject workshop.

To participate, please call **1-888-677-0358** with (b)(6) followed by the # sign.

Please send me any input you may have so that I can prepare a draft agenda and then forward the tentative agenda to you later this week.

Ideas could include the workshop scope, goals, invited organizations, list of topics and possible presenters/organizations.

Thanks ………….. Tom

From: Tateiwa, Kenji
Sent: 8 Apr 2015 09:19:15 -0400
To: Mattson, Philip;Correia, Richard;Madden, Patrick;West, Steven;koi@k.u-tokyo.ac.jp;kamel.saidi@nist.gov;'Jacoff, Adam S.';Nicholson, Thomas;Szilagyi, Andrew
Subject: Re: Follow-Up to NIST Robot Test Facility Tour and Discussions
Importance: Normal

Tom and all,

I am currently available on April 21, 22, and 23.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Outside of Scope

From: Nicholson, Thomas [mailto:Thomas.Nicholson@nrc.gov]
Sent: Tuesday, April 07, 2015 3:29 PM
To: 'Jacoff, Adam S.'; kamel.saidi@nist.gov; philip.mattson@hq.dhs.gov; Szilagyi, Andrew; koi@k.u-tokyo.ac.jp; Tateiwa, Kenji
Cc: West, Steven; Madden, Patrick; Correia, Richard
Subject: Follow-Up to NIST Robot Test Facility Tour and Discussions

Adam, Kamel, Phil, Andrew, and Kenji:

This morning, I spoke with my management concerning upcoming 2015 events including the proposed November 17 – 19, 2015 Workshop on the Use of Robotics for Nuclear Facilities.

Are you available on April 21st. 22nd or 23rd for a teleconference to discuss the workshop? What time is good for you? (e.g., 1:30 p.m. EDST?)

Please let us know your availability, and I will setup and send you the telephone bridge number and passcode.

Thanks .... Tom

****

Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop CSB 2-A07
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 251-7498
Fax: (301) 251-7422
E-mail: Thomas.Nicholson@nrc.gov

****

From: Nicholson, Thomas
Sent: Friday, February 20, 2015 5:57 PM
To: 'Jacoff, Adam S.'; kamel.saidi@nist.gov; philip.mattson@hq.dhs.gov; andrew.Szilagyi@em.doe.gov; koi@k.u-tokyo.ac.jp; 'Tateiwa, Kenji'
Cc: West, Steven; Madden, Patrick
Subject: NIST Robot Test Facility Visit on Feb. 19

Adam and Kamel:

Thanks so much for the tour of your robot test facility, and hosting our meeting to begin discussions on convening of a workshop on the use of robotics at nuclear facilities.

I greatly appreciate the enthusiasm and open discussions on this timely topic by all of the attendees.

Kenji's slides were excellent and helped to focus the discussions.

I look forward to working with you, Phil Mattson, DHS; Andrew Szilagyi, DOE/EM; and Kenji Tateiwa, TEPCO to make the workshop a reality.

Today I briefed Pat Madden and Steve West on our discussions and Kenji's slide presentations.

They also thank you for your hospitality and enthusiasm. We are very interested in learning more about robot testing protocols and operator certification concerning the safe use of robotics at nuclear facilities.

I will keep in touch.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, February 20, 2015 9:13 AM
To: 'Jacoff, Adam S.'; kamel.saidi@nist.gov; philip.mattson@hq.dhs.gov; Nicholson, Thomas; West, Steven; Parrott, Jack; Madden, Patrick; Aird, David; andrew.Szilagyi@em.doe.gov; koi@k.u-tokyo.ac.jp
Subject: [NIST Robot Test Facility Visit on Feb. 19] TEPCO Presentation and Reference Materials

Adam and all,

Thank you for providing us with an excellent tour of NIST's Robot Test Facility yesterday.
The following candid discussion with all of the participants was also very valuable.

Please find attached for your reference, my presentation on the Fukushima accident and use of robots.

Also attached is a notification email for my Weekly Fukushima Update Call that I have been hosting the past 3 years to inform interested experts on the current status of Fukushima Daiichi.
If any of you are interested, I would be happy to add you to the distribution list.

Below are additional information that you may find interesting.

[TEPCO's website on Robotics]
http://photo.tepco.co.jp/en/cat3/04-e.html
http://www.tepco.co.jp/en/decommision/principles/robot/index-e.html
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=raf8si47&catid=61795

[IRID Workshop]
http://irid.or.jp/en/reports/symposium/
(Presentation material on "Status of R&D Projects Related to Fuel Debris Retrieval" would be of most interest to you.)

Feel free to share any of the material in this email with your colleagues and do not hesitate to contact me should you have any questions.

Tom,
Thank you for making this tour and meeting happen.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office

2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

---- Original Message -----
From: Tateiwa, Kenji
To: 'Jacoff, Adam S.' ; Nicholson, Thomas ; West, Steven ; Parrott, Jack ; Madden, Patrick ; Aird, David ; andrew.Szilagyi@em.doe.gov
Sent: Friday, February 13, 2015 2:59 PM
Subject: [NIST Robot Test Facility Visit on Feb. 19] Update on Fukushima Daiichi D&D by TEPCO?

Tom, Adam, and all,

I look forward to visiting the NIST Robotics Lab on Feb. 19th and discussing with you ideas on the robotics workshop.

Would it be useful if I gave a brief presentation on the current status of decommissioning at Fukushima Daiichi so that participants can get a better idea of what needs there are for robotics at the site?

If so, I will bring my laptop and be prepared to show you some relevant slides.
Let me know what you all think and I will prepare accordingly.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1692 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1695 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
Sent: 9 Feb 2015 08:30:34 -0500
To: adam.jacoff@nist.gov;Nicholson, Thomas
Cc: Norton, Charles;andrew.Szilagyi@em.doe.gov;Messina, Elena;Virts, Ann M.;Moylan, Elizabeth
Subject: Re: Possible Dates to visit NIST Robotics Laboratory
Importance: Normal

Adam and Tom,

Thank you for organizing the visit to NIST.
Thu, Feb. 19th at 10 am works for me.

I will send the visitor form to Adam and his staff.

All the best,
Kenji

----- Original Message -----
From: Nicholson, Thomas
To: Tateiwa, Kenji ; andrew.Szilagyi@em.doe.gov ; Norton, Charles
Cc: adam.jacoff@nist.gov ; elizabeth.moylan@nist.gov ; "@emsus.com"@tgn.or.jp ; elena.messina@nist.gov
Sent: Friday, February 06, 2015 1:59 PM
Subject: FW: Possible Dates to visit NIST Robotics Laboratory

Kenji, Andrew and Chuck:

How about a visit to NIST on Thursday, February 19th @10:00 a.m.?

Attached is the NIST visitor form we need to fill-out and send to Adam Jacoff, NIST.

Please fill it out and send it directly to Adam.

Thanks .... Tom

Outside of Scope

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1699 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1700 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 11 Aug 2015 18:11:50 +0000
To: Tateiwa, Kenji
Cc: andrew.Szilagyi@em.doe.gov;Jacoff, Adam S.;kamel.saidi@nist.gov;philip.mattson@hq.dhs.gov;judd@nuvisioneng.com;Zeng, Zhao Chang
Subject: RE: RE: final workshop prospectus

Kenji:

Thanks for responding.

Yes, I will follow your suggestions.

What is Takashi Hara's e-mail address, so that I can keep him informed on the workshop developments?

Yes, I will revise the workshop prospectus as you suggested. Great news, our Canadian colleagues are now sponsors. I plan to have a final workshop prospectus by Thursday for everyone's review and approval.

I am checking with NIST and DOE on the time for the August 25th meeting.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Monday, August 10, 2015 6:42 PM
To: Nicholson, Thomas
Subject: [External_Sender] RE: final workshop prospectus

Tom,

Thank you for your note.

1. Please remove my name as co-chair and leave both TEPCO and JAEA blank without individual names at this moment.
2. Please replace my name as organizing committee member with "Takashi Hara", who will be replacing me as DC rep. when he obtains his visa.
3. TEPCO senior management is willing to support this workshop by sending one or two engineers from Tokyo, who are versed in the development and use of robotics at 1F.

If you are having a meeting at NIST on Tue, Aug. 25, I would like to suggest that we talk over teleconference.
(Preferably, between 8-10 am EDT.)

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku

Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Nicholson, Thomas [mailto:Thomas.Nicholson@nrc.gov]
Sent: Tuesday, August 11, 2015 4:39 AM
To: Tateiwa, Kenji
Subject: final workshop prospectus

Kenji:

I hope all is well with you.

Can we leave your name as co-chair of session 2?

Should we leave the co-chair from JAEA as blank or do you have a person to list?

I need to prepare a final workshop prospectus for distribution to NRC upper management and to our international program office very soon.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

From: Nicholson, Thomas
Sent: 17 Jul 2015 14:33:35 +0000
To: Tateiwa, Kenji
Cc: West, Steven;Gilbertson, Anders;Bernardo, Robert;Parrott, Jack;Marksberry, Don
Subject: RE: RE: Follow-Up to Teleconference Discussions Regarding the Proposed "International Workshop on the Use of Robotics at Nuclear Facilities"

Kenji:

You are most welcome. We definitely need you and TEPCO's participation to make the workshop a success.

Anything we can do to support you, please let us know.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, July 16, 2015 6:07 PM
To: Nicholson, Thomas
Cc: West, Steven; Gilbertson, Anders; Bernardo, Robert; Parrott, Jack; Marksberry, Don; Csontos, Aladar; 山本　正之; 傳田　康貴
Subject: [External_Sender] RE: Follow-Up to Teleconference Discussions Regarding the Proposed "International Workshop on the Use of Robotics at Nuclear Facilities"

Tom,

Thank you for joining the early-morning teleconference with my colleague, Yasutaka Denda, and I.

Your verbal explanation and the detailed follow-up note will certainly help us convince TEPCO's senior management of the importance of our involvement in the Robotics Workshop.

I will keep you posted with how things go in TEPCO.

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Nicholson, Thomas [mailto:Thomas.Nicholson@nrc.gov]
Sent: Friday, July 17, 2015 1:16 AM
To: tateiwa.kenji@tepco.co.jp
Cc: West, Steven; Gilbertson, Anders; Bernardo, Robert; Parrott, Jack; Marksberry, Don;

Csontos, Aladar
Subject: Follow-Up to Teleconference Discussions Regarding the Proposed "International Workshop on the Use of Robotics at Nuclear Facilities"

Kenji:

I enjoyed our discussions this morning with you and your colleague, Denda-san, who is in charge of R&D and robotics for 1F decommissioning at TEPCO.

At the conclusion of our teleconference, you requested that I provide you a list of ideas which we began discussing on how robotics can be useful during routine operations and decommissioning at nuclear facilities.

The following list of ideas was developed with an understanding that robotics are highly useful and in some cases essential for gaining access to challenging environments such as confined spaces, extreme temperatures, high-levels of radiation, low-oxygen conditions, presence of hazardous gases (both radioactive and non-radioactive), under-water environments, and other adverse industrial environments potentially hazardous to workers:

- Robotics can be used for conducting radiological surveys both inside and outside nuclear structures, systems, and components (SSC); for example, accessing areas that significantly affect worker safety such as in tanks, excavations, pipelines, pipe chases, conduits, etc.
- Robotics can be useful in monitoring SSCs during operations for detecting and identifying the location of leaks in spent fuel pools/radwaste tanks/condensate tanks and pipelines, etc.; and for providing detailed information useful in corrective action decisions.
- Robotics can be used to collect real-time data on temperatures, radioactivity, gases, water chemistry and other indicators of performance.
- Robotics can be part of a surveillance campaign, when gauges indicate abnormal conditions, to provide real-time data for decision-making.
- Robotics can provide a platform for sensors involving non-destructive evaluation (NDE) and non-destructive testing (NDT).
- Robotic technology can inform decision-makers on where and how to collect samples such as concrete and other materials that may be degraded by biochemical processes.
- Robots can facilitate subsurface monitoring in soil and ground-water systems to detect, sample and perform in-situ assessments of hazardous contaminants and their pathways.
- Robotic technology can monitor dry-cast storage containers and other safeguarded materials using NDE sensors for visual, eddy-current testing, ultrasonic testing, guided waves, acoustic emission, x-ray, penetrating radar, thermography evaluations and other NDEs.
- Databases on robotic technologies which includes their design and applications in various challenging environments could be useful in identifying and selecting robotic technologies for future nuclear facility monitoring, surveillance and sampling.

Based upon discussions with other U.S. and international nuclear and non-nuclear organizations (e.g., OECD/NEA/CNSI, CNSC, UK NDA, IAEA, U.S. DOE, NIST, U.S. Department of Homeland Security, etc.), there is very a strong interest in learning about the development and application of robotic technologies at the Fukushima Daiichi site.

Thanks .... Tom

****

Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

From: Nicholson, Thomas
Sent: 9 Feb 2015 23:53:02 +0000
To: Tateiwa, Kenji
Cc: Jacoff, Adam S.
Subject: RE: Request NIST visit form for February 19th visit NIST Robotics Laboratory

Kenji:

Thanks so much ..... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Monday, February 09, 2015 6:52 PM
To: Nicholson, Thomas
Subject: Re: Request NIST visit form for February 19th visit NIST Robotics Laboratory

Tom,

Thank you for setting this up.
I have already sent my form to Adam and his secretary.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM

To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1709 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
Sent: 11 May 2015 14:56:03 -0400
To: Dunn, Darrell;Csontos, Aladar;Gonzalez, Felix;Parrott, Jack;Correia, Richard;Marksberry, Don;'Levitan, William';Madden, Patrick;West, Steven;Bernardo, Robert;Aird, David;koi@k.u-tokyo.ac.jp;andrew.Szilagyi@em.doe.gov;philip.mattson@hq.dhs.gov;kamel.saidi@nist.gov;'Jacoff, Adam S.';Nicholson, Thomas
Subject: Re: Second organizational meeting to plan the Fall 2015 "Workshop on the Use of Robotics at Nuclear Facilities"
Importance: Normal

Tom and all,

Please find below JAEA's presentation (in Japanese) on the Naraha Remote Technology Development Center that we just discussed.
http://fukushima.jaea.go.jp/initiatives/cat01/pdf1502/hokokukai_04.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Nicholson, Thomas
To: 'Jacoff, Adam S.' ; 'kamel.saidi@nist.gov' ; 'philip.mattson@hq.dhs.gov' ; 'andrew.Szilagyi@em.doe.gov' ; 'koi@k.u-tokyo.ac.jp' ; 'Tateiwa, Kenji' ; Aird, David ; Bernardo, Robert ; West, Steven ; Madden, Patrick ; 'Levitan, William' ; Marksberry, Don ; Correia, Richard ; Parrott, Jack ; Gonzalez, Felix
Cc: Csontos, Aladar ; Dunn, Darrell
Sent: Monday, May 11, 2015 2:08 PM
Subject: Second organizational meeting to plan the Fall 2015 "Workshop on the Use of Robotics at Nuclear Facilities"

Adam, Phil, Lauri, Andy, Kenji, Pat, Bob, David, Carol and Don:

This is a reminder that our next scheduled, organizational meeting to plan the Fall 2015 Workshop on the Use of Robotics at Nuclear Facilities is Monday, May 11th @ 2:30 p.m. EDST.

Attached is a tentative agenda for our subject meeting.

I am also attaching notes prepared by Kamel Saidi, NIST from our earlier meeting at NIST on February 19, 2015 which will help our discussions.

To participate in the teleconference, please call **1-888-677-0358** with (b)(6) followed by the # sign.

At our last teleconference we discussed the development of a draft workshop prospectus. We agreed to develop a draft prospectus to identify the intended workshop audience; and the workshop purpose, objectives and goals, and expected outcomes.
The prospectus should mention that we are interested in both historical nuclear applications and experiences (e.g. Fukushima Daiichi, TMI, etc.), and possible future nuclear applications (e.g., Chernobyl, DOE waste cleanups, Shellafield, etc.). We also want to include other applications of mobile robotics such as those in the NASA (e.g., the two Mars Exploration Rovers -- Spirit and Opportunity), and DOD programs which may greatly benefit our needs.

Please help us identify the appropriate NASA and DOD contacts so that we can invite them to our future organizing teleconferences.

Attached is an example of a workshop flyer we prepared on probabilistic flood hazard assessment for your information.

I look forward to your participation at Monday's teleconference.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop CSB 2-A07
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 251-7498
Fax: (301) 251-7422
E-mail: Thomas.Nicholson@nrc.gov
****

From: Tateiwa, Kenji
Sent: 11 May 2015 15:56:39 -0400
To: Nicholson, Thomas
Cc: Baxley, Lee (INPO)
Subject: Re: Second organizational meeting to plan the Fall 2015 "Workshop on the Use of Robotics at Nuclear Facilities"
Importance: Normal

Tom,

Thank you for organizing today's teleconference on the "Workshop on the Use of Robotics at Nuclear Facilities".

As I mentioned during the teleconference, Lee Baxley at INPO (copied in this email) is working with U.S. nuclear operators to gather information on use of robotics at their plants.

I spoke with Lee this morning and told him about the workshop, but you may want to provide him with more detail to see what role INPO could play in this workshop.

Lee's contact info is as follows:

Lee Baxley
Sr. EP Evaluator
Institute of Nuclear Power Operations
770-644-8305
BaxleyRL@inpo.org
All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Nicholson, Thomas
To: 'Jacoff, Adam S.' ; 'kamel.saidi@nist.gov' ; 'philip.mattson@hq.dhs.gov' ; 'andrew.Szilagyi@em.doe.gov' ; 'koi@k.u-tokyo.ac.jp' ; 'Tateiwa, Kenji' ; Aird, David ; Bernardo, Robert ; West, Steven ; Madden, Patrick ; 'Levitan, William' ; Marksberry, Don ; Correia, Richard ; Parrott, Jack ; Gonzalez, Felix
Cc: Csontos, Aladar ; Dunn, Darrell
Sent: Monday, May 11, 2015 2:08 PM
Subject: Second organizational meeting to plan the Fall 2015 "Workshop on the Use of Robotics at Nuclear Facilities"

Adam, Phil, Lauri, Andy, Kenji, Pat, Bob, David, Carol and Don:

This is a reminder that our next scheduled, organizational meeting to plan the Fall 2015 Workshop on the Use of Robotics at Nuclear Facilities is Monday, May 11th @ 2:30 p.m. EDST.

Attached is a tentative agenda for our subject meeting.

I am also attaching notes prepared by Kamel Saidi, NIST from our earlier meeting at NIST on February 19, 2015 which will help our discussions.

To participate in the teleconference, please call **1-888-677-0358** with (b)(6) followed by the # sign.

At our last teleconference we discussed the development of a draft workshop prospectus. We agreed to develop a draft prospectus to identify the intended workshop audience; and the workshop purpose, objectives and goals, and expected outcomes.
The prospectus should mention that we are interested in both historical nuclear applications and experiences (e.g. Fukushima Daiichi, TMI, etc.), and possible future nuclear applications (e.g., Chernobyl, DOE waste cleanups, Shellafield, etc.). We also want to include other applications of mobile robotics such as those in the NASA (e.g., the two Mars Exploration Rovers -- Spirit and Opportunity), and DOD programs which may greatly benefit our needs.

Please help us identify the appropriate NASA and DOD contacts so that we can invite them to our future organizing teleconferences.

Attached is an example of a workshop flyer we prepared on probabilistic flood hazard assessment for your information.

I look forward to your participation at Monday's teleconference.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop CSB 2-A07
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 251-7498
Fax: (301) 251-7422
E-mail: Thomas.Nicholson@nrc.gov
****

From: Nicholson, Thomas
Sent: 9 Feb 2015 20:00:43 +0000
To: Tateiwa, Kenji
Cc: adam.jacoff@nist.gov;andrew.Szilagyi@em.doe.gov;West, Steven;Madden, Patrick
Bcc: Aird, David;Correia, Richard
Subject: Request to complete NIST form for February 19th visit to NIST Robotics Laboratory
Attachments: NIST1260 Foreign Visitor Form (YOURNAMEHERE).pdf

Kenji:

Please complete the attached form and send it to Adam Jacoff, NIST as soon as possible.

We have agreed that the visit and tour will be on February 19th @10:00 a.m. at NIST's robotics laboratory.

Thanks .... Tom

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM
To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia,

Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1717 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1718 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1719 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
Sent: 30 Jun 2014 08:01:40 -0400
To: Aird, David;Nicholson, Thomas
Cc: Tateiwa, Kenji
Subject: [RES Seminar] Slides
Attachments: Fukushima Daiichi Water Issues@NRC-RES_06302014.pdf
Importance: Normal

Tom and Dave,

Please find attached my slides for this morning.

Also, if you could download the following reference materials, that would be helpful.

Investigation Report on H4 # 5 Tank Leakage (6.20.2014)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140630_06-j.pdf

Estimated Leakage to Sea (8.27.2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0004_04.pdf

Geology and Hydrology of 1F (8.23.2013)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130823_05-j.pdf

See you soon.

All the best,
Kenji

----- Original Message -----
From: "Aird, David" <David.Aird@nrc.gov>
To: "Nicholson, Thomas" <Thomas.Nicholson@nrc.gov>; "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Sent: Monday, June 30, 2014 6:38 AM
Subject: RE: [RES Seminar] Reference Materials and Feedback Sheet

Kenji and Tom,

I was able to download and unzip all 4 videos. I have them on a flashdrive as well as on the G drive.

-Dave

-----Original Message-----
From: Aird, David
Sent: Sunday, June 29, 2014 10:16 PM
To: Nicholson, Thomas; Tateiwa, Kenji
Subject: RE: [RES Seminar] Reference Materials and Feedback Sheet

Tom and Kenji,

Sounds good. See you both tomorrow. I will look into downloading the files tomorrow morning onto the back up computer.

-Dave

From: Nicholson, Thomas
Sent: Sunday, June 29, 2014 9:39 PM
To: Tateiwa, Kenji; Aird, David
Subject: RE: [RES Seminar] Reference Materials and Feedback Sheet

Kenji and David:

I am on my laptop.

I was able to view the ground-water by-pass video. Both sight and sound OK

Good luck ...... Tom

-----Original Message-----
From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Sunday, June 29, 2014 5:12 PM
To: Nicholson, Thomas; Aird, David
Subject: [RES Seminar] Reference Materials and Feedback Sheet

Tom and David,

Please find below links to reference materials that I would like to show during the RES Seminar tomorrow.

If you could download these files onto the PC that I would be using, that would be much appreciated.
(I will also burn these onto a DVD-R and bring it with me.)

[Videos] (Would like to play the sound as well.) Water Glass (7/9/2013)
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=t3q32g27&catid=61787

Groundwater Bypass (4/4/2014)
http://photo.tepco.co.jp/en/date/2014/201404-e/140404-01e.html

Frozen Soil Wall (6/2/2014)
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=h0odb1f5&catid=61795
*The initial screen may not take you to the right video. Please click on the thumbnail titled "2014.6.2 Measures Towards Contaminated Water", then download the file.

Unit 1 S/C (5/28/2014)
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=l445x9pb&catid=61785

[Documents]
D&D Committee-Topics (1/30/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140130_06-j.pdf

Special Nuclear Facility Committee-Water (4/11/2014)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140411_04-j.pdf

D&D Committee-Topics (4/24/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140424_07-j.pdf

Special Nuclear Facility Committee-Simulation (5/26/2014)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0022_01.pdf

D&D Committee-Topics (5/29/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140529_06-j.pdf

On-Site Committee-Status (6/16/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140616_03-j.pdf

On-Site Committee-Challenges (6/16/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140616_04-j.pdf

D&D Committee-Status (6/27/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140627_04-j.pdf

D&D Committee-Roadmap (6/27/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140627_05-j.pdf

D&D Committee-Water (6/27/2014)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140627_07-j.pdf

Also, if you could print out the attached feedback sheet and ask
participants to fill it out after my talk, that would also be great.

As for my slides, I am still working on it but will send it to you as soon
as I finalize it.
Thanks for your patience.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)
tateiwa.kenji@tepco.co.jp

On Wed, 25 Jun 2014 13:56:56 -0400
"Nicholson, Thomas" <Thomas.Nicholson@nrc.gov> wrote:

> Kenji:
>
> Yes, we can wait for the latest information. I will be out of the office
> on Friday. David Aird should be available at 301-251-7926 if you need
> assistance.
>
> I will return late Sunday night. You should bring a CD with the slides to
> the auditorium on Monday morning.
>
> I am checking on your example.
>
> Thanks .... Tom

>
> From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
> Sent: Wednesday, June 25, 2014 11:52 AM
> To: Nicholson, Thomas
> Cc: Aird, David
> Subject: Slides and reference documents for RES Seminar
>
> Tom,
>
> I just heard that there will be new information coming out this Friday
> regarding the decommissioning roadmap of Fukushima Daiichi.
> As I would like to incorporate the most up-to-date information in my
> presentation, I am planning to finalize my slides on Saturday and then
> send it to you.
> I hope that is acceptable to you.
>
> I will also be sending you reference documents that I might want to show
> on the screen during Q&A.
> Could you check if the PC that I will be using on Monday can display
> Japanese characters?
> Please try the following document as an example.
> http://www.tepco.co.jp/nu/f2-np/handouts/j140624a-j.pdf
>
> Thank you for your help.
>
> All the best,
> Kenji
> ----- Original Message -----
> From: Nicholson, Thomas<mailto:Thomas.Nicholson@nrc.gov>
> To: Tateiwa, Kenji<mailto:tateiwa.kenji@tepco.co.jp>
> Cc: Aird, David<mailto:David.Aird@nrc.gov>
> Sent: Wednesday, June 25, 2014 10:01 AM
> Subject: RE: Request signing of consent form to record your RES
> Seminar and to make a copy
>
> Kenji:
>
> Thanks so much for your prompt response.
>
> We look forward to your presentation.
>
> Can you send us your PowerPoint slides soon?
>
> Thanks .... Tom
>
> From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
> Sent: Wednesday, June 25, 2014 8:43 AM
> To: Nicholson, Thomas
> Cc: Aird, David
> Subject: Re: Request signing of consent form to record your RES
> Seminar and to make a copy
>
> Tom,
>
> Please find attached a pdf copy of my consent form.
> I will also bring the form on Monday.

>
> All the best,
> Kenji
> --------------------------
> Kenji Tateiwa
> Manager, Nuclear Power Programs
> Tokyo Electric Power Company
> Washington Office
> 2121 K Street, NW Suite 910
> Washington, DC 20037
> tel: +1-202-457-0790 (ext.)116
> (b)(6)
> ----- Original Message -----
> From: Nicholson, Thomas<mailto:Thomas.Nicholson@nrc.gov>
> To: tateiwa.kenji@tepco.co.jp<mailto:tateiwa.kenji@tepco.co.jp>
> Cc: Aird, David<mailto:David.Aird@nrc.gov>
> Sent: Tuesday, June 24, 2014 4:27 PM
> Subject: Request signing of consent form to record your RES Seminar
> and to make a copy
>
> Kenji:
>
> We are requesting you to review and sign the attached NRC Multimedia
> Consent Form that gives NRC the right to record your RES Seminar. It also
> asks your agreement to make copies of the video recording.
>
> Your RES Seminar will be sent live via Videostreaming to our four Regions,
> Technical Training Center in Chattanooga, and research office in
> Rockville, Maryland.
>
> Please sign and bring the form with you next Monday, June 30th.
>
> Thank you in advance for agreeing to the consent form.
>
> Thanks .... Tom
>
> **
> Thomas J. Nicholson, Senior Technical Advisor U.S. Nuclear Regulatory
> Commission Office of Nuclear Regulatory Research Mail Stop CSB 2-A07
> 11555 Rockville Pike
> Rockville, MD 20852
> Tel: (301) 251-7498
> Fax: (301) 251-7422
> E-mail: Thomas.Nicholson@nrc.gov<mailto:Thomas.Nicholson@nrc.gov>
> **

Page 1725 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1726 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1727 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1728 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1729 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1731 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1732 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1733 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1734 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Nicholson, Thomas
Sent: 15 Jul 2015 23:08:58 +0000
To:
tateiwa.kenji@tepco.co.jp;judd@nuvisioneng.com;andrew.Szilagyi@em.doe.gov;Jacoff, Adam S.;'philip.mattson@hq.dhs.gov';'kamel.saidi@nist.gov';Marksberry, Don;Gilbertson, Anders
Cc: Bernardo, Robert;Csontos, Aladar;Parrott, Jack;West, Steven;Rini, Brett;Sangimino, Donna-Marie;Abu-Eid, Boby;Correia, Richard;Coyne, Kevin
Bcc: Nicholson, Thomas
Subject: Revised Workshop Prospectus draft July 15, 2015
Attachments: WorkshopProspectus.July15-2015.docx

Kenji, Laurie, Andy, Adam, Phil, Kam, Don and Anders:

I am forwarding the attached revised workshop prospectus.

These revisions are based upon our July 8th teleconference discussions, and recent input from Laurie Judd and Andy Szilagyi.

Please review. It will be further reviewed and revised at our July 28th meeting at NIST.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

International Workshop on the Use of Robotics at Nuclear Facilities and other Challenging Environments

December 1, 2015, 1:00 – 5:00 p.m. (EST)
December 2 – 3, 2015, 9:00 a.m. – 5:00 p.m. (EST)

National Institute of Standards and Technology
Green Auditorium, Building 101
100 Bureau Drive, Gaithersburg, MD, 20899

Organizational Sponsors

NIST

U.S.NRC
UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

DEPARTMENT OF ENERGY • UNITED STATES OF AMERICA

U.S. DEPARTMENT OF HOMELAND SECURITY

Workshop Information

The U.S. Nuclear Regulatory Commission's (NRC's) Office of Nuclear Regulatory Research (RES); National Institute of Standards and Technology (NIST); U.S. Department of Energy (DOE); U.S. Department of Homeland Security (DHS); and other sponsors to be announced have developed this prospectus for convening the "International Workshop on the Use of Robotics at Nuclear Facilities and other Challenging Environments."

Audience: Designers, developers, operators and users of robotics at nuclear facilities and other challenging environments, and robotic engineers from industry, academia, research institutes and government agencies.

Workshop Objectives

The purpose of the workshop is to inform, discuss and assess past, present and anticipated future uses of robotics at nuclear facilities. Technical exchange of experiences using mobile robots in challenging environments such as the Martian exploration, deep-sea surveys and adverse, hazardous-conditions for humans will be sought. The specific objectives will be:

- Facilitate the sharing of information between Federal agencies, industry and academia on the present use of mobile robotics for monitoring, sampling and other surveillance functions for a range of air, water and material conditions within critical infrastructures.
- Seek ideas and insights on possible ways to develop robotics to execute complex tasks for assessing severe nuclear accidents and reporting conditions within critical infrastructures.
- Identify strategies for using robotics to examine, identify and recover radioactive materials such as fuel rods from damaged nuclear facilities.
- Adapt current mobile robotics used in non-nuclear applications to nuclear facility applications.
- Establish realistic plans to test both the robots and their operators for a range of nuclear facility scenarios.
- Discuss the development of standards for evaluating robots, strategies, their implementation and operating systems for robotics in nuclear facilities.
- Identify "game-changing" opportunities to facilitate the use of robotics in the nuclear industry.

The workshop is designed to facilitate technical exchange of lessons learned from historic nuclear applications and experiences (e.g., Three-Mile Island and Fukushima Daiichi); ongoing research; and other relevant applications (e.g., NASA's Martian Exploration Rovers – Spirit and Opportunity). For detailed background information on robotic applications and databases, please see "**Weblinks**".

Focus

The workshop will focus on the following robotic applications:

Response Robotics for Nuclear Facilities:

- Security
- Reconnaissance
- Decontamination and decommissioning (D&D)
- Monitoring (storage)

Surface-Based Mobil Robotic Activities:

- Establish access to critical areas for inspection
- Create virtual geometries of critical infrastructures through visual and thermal imaging
- Map infrastructures for 2-D and 3-D modeling
- Sensor Monitoring (Reconnaissance) to determine internal environmental conditions
- Sampling of air, water and materials through sampling ports
- Confirm internal conditions for simulation of environments
- Identify leaks of infrastructures
- Maintaining power input and data recovery via tethers
- Grasp/cut/remove capabilities
- Emergency response to provide cooling water and diesel fuel to safety systems
- Boring/drilling for venting in both the horizontal and vertical directions
- Wall building for shielding "shines"
- Inspection of contaminated water tanks (1000+ tanks)
- Wiping or other decontamination
- Access via doors/hallways/portals
- Dispensing decontamination agents
- Inspect external torus containment structure

Aquatic Robotics Activities:

- Inspect and sample spent fuel pools and tanks
- Leak detection and sealing
- Inspect and identify leaks from water treatment and storage facilities including filter exchanges
- Inspect and mitigate internal torus containment structure

Aerial Robotics Activities:

- Hover within limited distance for visualizing infrastructures
- Sample atmospheric conditions outside nuclear containment structures
- Sample internal environments within tanks and large infrastructures

Workshop Structure

The workshop will be divided into five afternoon and morning sessions. Each session will focus on a technical theme. The themes and questions to be addressed are:

Session 1: Identification and Integration of Existing Robotic Technologies to Address Current Challenges.

Keynote Address to address the following questions:

- What is the current-state-of-the-practice in applying robotics to challenges at nuclear facilities?
- What are the opportunities to develop better outcomes in the use of robotics?
- What are the goals in applying robotics at nuclear facilities now and in the future?

Contributed presentations will focus on informing the audience on established or developing databases of robotic technologies and applications, and how they have been integrated in successful programs.

At the end of the session, there will be demonstrations of the databases and example robotic exercises at the NIST Robotic Test Facility.

Session 2: Lessons Learned During Robot Deployment at Fukushima Daiichi.

Keynote Address to address the following questions:

- What new robotic applications have been developed and applied for surveying and assessing the challenging conditions within the damaged reactor and auxiliary support structures?
- What lessons were learned in the development and application of these new robotic technologies and tools?
- How were complex conditions and challenging environments accommodated by the adaptive robotic technology and tools?
- How were worker safety and cleanup objectives met by using these robotic technologies and tools?

Contributed presentations will provide examples of the challenges and successes during the robotic deployment at Fukushima Daiichi?

Session 3: Industry and Government Experiences in Applying Robotic Technologies to Real Challenges.

Keynote Address to address the following questions:

- What were the challenges in identifying and applying robotic technologies?
- What lessons were learned in the development and application of these robotic technologies and tools?
- How were complex conditions and challenging environments accommodated by adaptive robotic technology and tools?

- What challenges remain for applying robotic technologies for nuclear facilities and other challenging environments?

Contributed presentations will provide examples of the challenges and successes in applying robotic technologies?

Session 4: Game-Changing Technologies and New Developments

Keynote Address to address the following questions:

- What are the game-changing technologies and new developments to enhance the use of robotics at nuclear facilities?
- What are the regulatory and procedural challenges that need to be addressed?
- What are the complex conditions and challenging environments that need to be accommodated by adaptive robotic technologies?
- What are the challenges for the next 5 – 10 years to develop new robotic strategies and tools to successfully meet nuclear facility needs?

Contributed presentations will provide examples of the game-changing technologies and emerging robotic technologies?

Session 5: Robotic Testing, Operator Training and Certification, and Regulatory Standards

Keynote Address to address the following questions:

- Where and how are robots tested?
- Where and how are robotic operators trained?
- How can these testing and training programs be incorporated into a certification program recognized by industry and government?
- How can industry standards be developed to achieve regulatory acceptance?

Contributed presentations will provide examples of the robotic testing, operator training and regulatory acceptance criteria?

Each session will have two co-chairs. The session will begin with a 30 minute keynote presentation followed by 20-minute contributed presentations. At the end of each session, there will be a panel discussion moderated by the session co-chairs. The panel will consist of the presenters and invited experts who will answer questions from the audience on lessons learned in robotic applications; identified databases; and possibilities for future nuclear applications.

The workshop organizing committee is seeking lessons learned from a wide range of international applications such as Chernobyl and Fukushima Daiichi decontamination and decommissioning activities.

The workshop will be open to the public to encourage industry participation.

Workshop Contacts:

Workshop Co-Chairs: Thomas Nicholson, NRC/RES Thomas.Nicholson@nrc.gov
Andrew Szilagyi, DOE-EM Andrew.Szilagyi@em.doe.gov
Adam Jacoff, NIST adam.jacoff@nist.gov

Workshop Registration and Logistics: NIST Conference Coordinator

Organizing Committee Members: Thomas Nicholson, Don Marksberry, Boby Abu-Eid, Jack Parrott and Bob Bernardo, U.S. NRC; Andrew Szilagyi, DOE-EM; Adam Jacoff and Kamel Saidi, NIST; Laurie Judd, NuVision Engineering; Kenji Tateiwa, TEPCO; Rob Buckingham, UKAEA - RACE; Philip Mattson, Department of Homeland Security; and others to be announced (e.g., DARPA, NASA, U.S. Navy)

Registration: All attendees must complete and submit a registration form and pay a $71 registration fee one week prior to the workshop. This form will become available in early November 2015 on the NIST Public Website under "International Workshop on the Use of Robotics at Nuclear Facilities."

Weblinks:

NIST Robot Testing Facility
http://www.nist.gov/el/isd/ms/roboticsbldg.cfm

Defense Advanced Research Projects Agency (DARPA) Robotics Challenge
http://www.theroboticschallenge.org/

DOE Science Showcase – DOE Advanced Robotics
http://www.osti.gov/home/robotics.html

TEPCO's website on the use of robotics at Fukushima Daiichi:.
http://www.tepco.co.jp/en/decommision/principles/robot/index-e.html

IAEA "Catalogue of methods, tools and techniques for recovery from fuel damage events" with example of mini-rover submarine used to inspect and defuel the TMI Unit 2 pressurizer (p. 115)
http://www.iaea.org/inis/collection/NCLCollectionStore/_Public/23/014/23014980.pdf

From: Nicholson, Thomas
Sent: 12 Aug 2015 18:06:41 +0000
To: Tateiwa, Kenji;takashi.hara@tepco.co.jp
Cc: andrew.Szilagyi@em.doe.gov;'Jacoff, Adam S.';kamel.saidi@nist.gov;philip.mattson@hq.dhs.gov;judd@nuvisioneng.com;'Zeng, Zhao Chang'
Bcc: Sangimino, Donna-Marie;Stahl, Eric
Subject: TEPCO contact in Washington, DC

Kenji:

Thank you for providing Hara-san's e-mail address.

Yes, I will include Mr. Takashi in all future correspondence concerning the workshop, along with you.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Wednesday, August 12, 2015 6:14 AM
To: Nicholson, Thomas; takashi.hara@tepco.co.jp
Cc: andrew.Szilagyi@em.doe.gov; 'Jacoff, Adam S.'; kamel.saidi@nist.gov; philip.mattson@hq.dhs.gov; judd@nuvisioneng.com; 'Zeng, Zhao Chang'
Subject: [External_Sender] RE: RE: final workshop prospectus

Tom,

Hara-san's email address is takashi.hara@tepco.co.jp and I have copied him in this email.
Please include him in future correspondence and also copy me so that I can support the transition.

All the best,
Kenji

From: Nicholson, Thomas [mailto:Thomas.Nicholson@nrc.gov]
Sent: Wednesday, August 12, 2015 3:12 AM
To: Tateiwa, Kenji
Cc: andrew.Szilagyi@em.doe.gov; Jacoff, Adam S.; kamel.saidi@nist.gov; philip.mattson@hq.dhs.gov; judd@nuvisioneng.com; Zeng, Zhao Chang
Subject: RE: RE: final workshop prospectus

Kenji:

Thanks for responding.

Yes, I will follow your suggestions.

What is Takashi Hara's e-mail address, so that I can keep him informed on the workshop developments?

Yes, I will revise the workshop prospectus as you suggested. Great news, our Canadian colleagues are now sponsors. I plan to have a final workshop prospectus by Thursday for everyone's review and approval.

I am checking with NIST and DOE on the time for the August 25th meeting.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Monday, August 10, 2015 6:42 PM
To: Nicholson, Thomas
Subject: [External_Sender] RE: final workshop prospectus

Tom,

Thank you for your note.

1. Please remove my name as co-chair and leave both TEPCO and JAEA blank without individual names at this moment.
2. Please replace my name as organizing committee member with "Takashi Hara", who will be replacing me as DC rep. when he obtains his visa.
3. TEPCO senior management is willing to support this workshop by sending one or two engineers from Tokyo, who are versed in the development and use of robotics at 1F.

If you are having a meeting at NIST on Tue, Aug. 25, I would like to suggest that we talk over teleconference.
(Preferably, between 8-10 am EDT.)

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Nicholson, Thomas [mailto:Thomas.Nicholson@nrc.gov]
Sent: Tuesday, August 11, 2015 4:39 AM
To: Tateiwa, Kenji
Subject: final workshop prospectus

Kenji:

I hope all is well with you.

Can we leave your name as co-chair of session 2?

Should we leave the co-chair from JAEA as blank or do you have a person to list?

I need to prepare a final workshop prospectus for distribution to NRC upper management and to our international program office very soon.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

July 1, 2014

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037

Dear Mr. Tateiwa:

I would like to sincerely thank you for traveling to the U.S. Nuclear Regulatory Commission Headquarters in Rockville, Maryland, to present a seminar on "Tackling Water Issues at Fukushima Dai-ichi" hosted by the Office of Nuclear Regulatory Research. We also greatly appreciate the time you spent with our technical staff both prior to and following your presentation to inform them on ground-water monitoring and modeling activities, innovative remediation technologies, and robotics being used to identify and characterize radionuclide releases and to answer their questions on TEPCO's remediation strategy and program.

Feedback from our technical staff indicates they learned a great deal from your videos, presentation slides, and technical responses to the audience's questions. The NRC audience was especially impressed with the timely information on the challenges of implementing your multifaceted remediation program. As noted in the Chairman's introductory remarks, we are very appreciative of the openness and sharing of lessons learned during the post-accident recovery program. These lessons are very timely and important to our regulatory program in understanding decommissioning and residual radionuclide contaminant issues.

We hope that your interactions with our technical staff, particularly your pre-seminar conversation with our RES technical staff, were mutually beneficial. We appreciate the time and effort you took to prepare and deliver your presentation and especially your willingness to provide follow-up communication on this important topic. We hope that this collaboration with NRC's Office of Nuclear Regulatory Research will continue.

Sincerely,

/RA/

Michael F. Weber
Deputy Executive Director for Materials, Waste,
Research, State, Tribal and Compliance Programs
Office of the Executive Director for Operations

July 1, 2014

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037

Dear Mr. Tateiwa:

I would like to sincerely thank you for traveling to the U.S. Nuclear Regulatory Commission Headquarters in Rockville, Maryland, to present a seminar on "Tackling Water Issues at Fukushima Dai-ichi" hosted by the Office of Nuclear Regulatory Research. We also greatly appreciate the time you spent with our technical staff both prior to and following your presentation to inform them on ground-water monitoring and modeling activities, innovative remediation technologies, and robotics being used to identify and characterize radionuclide releases and to answer their questions on TEPCO's remediation strategy and program.

Feedback from our technical staff indicates they learned a great deal from your videos, presentation slides, and technical responses to the audience's questions. The NRC audience was especially impressed with the timely information on the challenges of implementing your multifaceted remediation program. As noted in the Chairman's introductory remarks, we are very appreciative of the openness and sharing of lessons learned during the post-accident recovery program. These lessons are very timely and important to our regulatory program in understanding decommissioning and residual radionuclide contaminant issues.

We hope that your interactions with our technical staff, particularly your pre-seminar conversation with our RES technical staff, were mutually beneficial. We appreciate the time and effort you took to prepare and deliver your presentation and especially your willingness to provide follow-up communication on this important topic. We hope that this collaboration with NRC's Office of Nuclear Regulatory Research will continue.

Sincerely,

/RA/

Michael F. Weber
Deputy Executive Director for Materials, Waste,
Research, State, Tribal and Compliance Programs
Office of the Executive Director for Operations

DISTRIBUTION:
B. Sheron, RES, S. West, RES K. Sargent, OCA

ADAMS Accession No.: ML13281A911

OFFICE	RES/DRA	RES	D:RES/DRA	D:RES	DEDMRT
NAME	T. Nicholson	J. Zabel	R. Correia	B. Sheron	M. Weber
DATE	7/01/14	7/01/14	7/ /14	7/ /14	7/ /14

OFFICIAL RECORD COPY

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037

Dear Mr. Tateiwa:

Thank you for speaking at the U.S. Nuclear Regulatory Commission's 26th Annual Regulatory Information Conference (RIC), held March 11–13, 2014, at the Bethesda North Marriott Hotel and Conference Center in Rockville, Maryland.

Your presentation – "Challenges and Progress Related to Contaminated Water Issues at Fukushima Daiichi Nuclear Power Station" during session T-12: "Understanding the Need and Effectiveness of Remediation involving Nonroutine Radionuclide Releases from Nuclear Facilities" was informative and engaging. You offered another perspective on the topic, which helped to foster a quality discussion during the audience question and answer portion of the session.

This year, the number of participants at the RIC reached nearly 3,000, with international representation from approximately 35 countries. Initial feedback received indicates that the RIC was successful in achieving its goal of providing an opportunity for participants to interact with colleagues and to gain and share valuable insights, opinions, and information on nuclear regulatory activities.

Now available at http://video.nrc.gov/ are the audio and video recordings captured during for the opening session, the Commission plenary sessions, the regional session ("Contemporary Nuclear Power Plant Regulatory Issues") and the special plenary session ("Panel Discussion on Operating and New Reactors: Answers to Your Questions"). Additionally, all questions that were not addressed during the technical sessions as well as final presentations received while onsite are currently being compiled and will be posted on the RIC Web site at http://www.nrc.gov/public-involve/conference-symposia/ric/index.html in the next few weeks.

We thank you for your contributions, which help to make the RIC a success, and hope you will join us for the 27th Annual RIC on March 10–12, 2015, at the Marriott Bethesda North Hotel and Conference Center in Rockville, Maryland.

Sincerely,

Richard P. Correia, Director
Division of Risk Analysis
Office of Nuclear Regulatory Research

From: Tateiwa, Kenji
Sent: 29 May 2015 15:11:51 -0400
To: Robert.o.ambrose@nasa.gov;brittany.N.Kimball@nasa.gov;Camper, Larry;Abu-Eid, Boby;judd@nuvisioneng.com;jrenshaw@epri.com;Sangimino, Donna-Marie;Rini, Brett;West, Steven;william.levitan@em.doe.gov;koi@k.u-tokyo.ac.jp;Parrott, Jack;Csontos, Aladar;Bernardo, Robert;Marksberry, Don;kamel.saidi@nist.gov;andrew.Szilagyi@em.doe.gov;philip.mattson@hq.dhs.gov;'Jacoff, Adam S.';Nicholson, Thomas
Subject: Use of Robotics at Fukushima Daiichi: Third Organizational Meeting for International Workshop on the Use of Robotics at Nuclear Facilities - Update
Importance: Normal

Tom and all,

Per our discussion during today's teleconference, please find below url for TEPCO's website on the use of robotics at Fukushima Daiichi.
http://www.tepco.co.jp/en/decommision/principles/robot/index-e.html

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Nicholson, Thomas
To: 'Jacoff, Adam S.' ; philip.mattson@hq.dhs.gov ; andrew.Szilagyi@em.doe.gov ; kamel.saidi@nist.gov ; Marksberry, Don ; Bernardo, Robert ; Csontos, Aladar ; Parrott, Jack ; koi@k.u-tokyo.ac.jp ; 'Tateiwa, Kenji' ; Bill Levitan (william.levitan@em.doe.gov) ; West, Steven ; Rini, Brett ; Sangimino, Donna-Marie ; jrenshaw@epri.com ; judd@nuvisioneng.com ; Abu-Eid, Boby ; Camper, Larry ; brittany.N.Kimball@nasa.gov ; Robert.o.ambrose@nasa.gov
Sent: Friday, May 29, 2015 12:17 PM
Subject: Third Organizational Meeting for International Workshop on the Use of Robotics at Nuclear Facilities - Update

Adam, Kam, Phil, Andy, Don, Bob, Al, Jack, Kenji, Bill, Jeremy, Laurie, Rob and Steve:

This is a reminder to join our next meeting via teleconferencing to further develop the subject workshop prospectus.

The call-in number is **1-888-677-0358** with (b)(6) followed by the # sign.

At our last meeting, we decided to have the subject workshop at the NIST auditorium on the afternoon of December1, and all day on December 2 and 3.

We also agreed to begin the workshop at 1:00 p.m. on Tuesday, December 1st with a tour of the NIST Robot Testing Facility (please see: http://www.nist.gov/el/isd/ms/roboticsbldg.cfm) later that afternoon.

I have attached a revised meeting agenda, and a revised draft workshop prospectus.

For the purpose of discussion, I have added both a survey form and completed form as an example for the proposed Catalogue of Robotics for Use at Nuclear Facilities.

For the moment the workshop sponsors identified are NIST, U.S. NRC, DHS and DOE. We would like to add others such as TEPCO, IRID, EPRI and the U.K. NDA.

Please send me any contacts you may have at NASA and DOD so that we can invite them to attend our next meeting.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop CSB 2-A07
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 251-7498
Fax: (301) 251-7422
E-mail: Thomas.Nicholson@nrc.gov
****

Page 1750 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1751 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1752 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

Page 1754 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Nicholson, Thomas

Subject: Updated Reminder: Organizational meeting for International Workshop on the Use of Robotic Technologies at Nuclear Facilities

Location: NIST Robot Test Facility, Gaithersburg. MD or teleconferencing 1-888-677-0358 (b)(6)

Start: Thu 12/03/2015 9:00 AM
End: Thu 12/03/2015 12:00 PM

Recurrence: (none)

Meeting Status: Meeting organizer

Organizer: Nicholson, Thomas
Required Attendees: 'Jacoff, Adam S.'; kamel.saidi@nist.gov; Tateiwa, Kenji; 原 貴; philip.mattson@hq.dhs.gov; andrew.Szilagyi@em.doe.gov; judd@nuvisioneng.com; Gilbertson, Anders; Marksberry, Don; Parrott, Jack; Bernardo, Robert; Burton, Thomas; Buckingham, Rob; Zeng, Zhao Chang; Correia, Richard; Sangimino, Donna-Marie; Rini, Brett; West, Steven; Flory, Shirley; Holonich, Joseph; jrenshaw@epri.com; Csontos, Aladar; Knight, Joan B:(GenCo-Nuc); Arrisueno, Gladys L; ITO SHINTARO; Gifford, Ian; (b)(6) Wessels, Steven; Eason, Chris
Optional Attendees: Shinji KawatsUMA; Steadman, Myesha C.

Categories: Red Category

Adam, Kam, Andy, Gladys, Laurie, Kenji, Takashi, Phil, Charles, Anders, Ian, Don, Jack, Robert, Tom, Rob, Chris, Joan and Jeremy:

At our teleconference on November 10th, we agreed to speak with Gladys Arrisueno, NIST about the workshop logistics, and NIST's recent posting of our international workshop on their 2016 NIST Activities Website.

We had a teleconference on November 17th with Gladys to review the November 16th updated Website information at: http://www.nist.gov/el/isd/international-workshop-on-the-use-of-robotic-technologies-at-nuclear-facilities.cfm

We agreed that the official hotel will be the Marriott by Courtyard in Gaithersburg, MD within the "Rio" complex. Gladys will work with the hotel to reserve 50 rooms at U.S. Government rate, and to arrange for shuttle bus service from the hotel to NIST and return. The registration link will provide details on the hotel, transportation and the $71 registration rate and available methods for payment.

We also agreed that our next organizational meeting would be on **Thursday, December 3rd @9:00 a.m. EST** at the NIST Robot Test Facility and via teleconference for those not able to attend in person.

Those attending in person, please send your name to Adam Jacoff, NIST (adam.jacoff@nist.gov) by **November 30th** to obtain security access.

The meeting will focus on reviewing the 500-word abstracts and recommendations on speakers. Please send me any you may have. I have the following:

McDaniel.Florid... Harden.LANL.A... Tibrea.SRNL.Abs... Jenkin.YorkUniv... Strati.ChalkRiver... OPG Presentation Abstract - U4... McGovern.Kinet...

Park.ANL.KAERI.... Josip.OPG.Abstr... Hafen.Wälischmiller Engineerin... Buckingham.RACE abstract.doc Abstract.Tsuchi... Mascarenas.LA... Abstract IRID Oikawa.doc

Croft.INL_SRNL....

I am also including Laurie Judd's abstract evaluation matrix for reviewing the abstracts:

AbstractEvaluati...

We plan to cover the following agenda items:

1. Review recommendations for speakers in Sessions 2, 3, 4 and 5 based upon the 500-word abstracts
2. Discuss selection of additional session-co-chairs, and panel members
3. Determine next face-to-face meeting date at NIST's Robotic Test Facility or via teleconferencing in late December.

To participate in the meeting remotely, please call:

U.S. callers: 1-888-677-0358 with (b)(6) followed by the # sign

International callers: 1-210-234-7539 with (b)(6) followed by the # sign

Also attached are the updated draft Workshop Program and directory of our organizing committee and cooperators. Please review and edit where necessary.

WorkshopAgen... Directory.docx

Thanks .... Tom

****

Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12

11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

Nicholson, Thomas

Subject:	Organizational Meeting at NIST on October 1, 2015 @9:00 a.m. at the Robot Test Facility building
Location:	NIST Robot Test Facility, Gaithersburg, MD
Start:	Thu 10/01/2015 9:00 AM
End:	Thu 10/01/2015 12:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Nicholson, Thomas
Required Attendees:	'Jacoff, Adam S.'; kamel.saidi@nist.gov; Tateiwa, Kenji; 原 貴; philip.mattson@hq.dhs.gov; andrew.Szilagyi@em.doe.gov; judd@nuvisioneng.com; Gilbertson, Anders; Marksberry, Don; Parrott, Jack; Bernardo, Robert; Burton, Thomas; Buckingham, Rob; Zeng, Zhao Chang; Abu-Eid, Boby; Coyne, Kevin; Correia, Richard; Sangimino, Donna-Marie; Rini, Brett; West, Steven; Flory, Shirley; Holonich, Joseph; jrenshaw@epri.com; Knight, Joan B:(GenCo-Nuc)
Optional Attendees:	Csontos, Aladar; [redacted] (b)(6)
Categories:	Red Category

Adam, Andy, Laurie, Kenji, Takashi, Phil, Charles, Anders, Don, Jack, Robert, Tom, and Rob:

Our next organizational meeting is scheduled for **Thursday, October 1st @9:00 a.m. EDST** at the NIST Robot Test Facility, building 207 (please see attached NIST directions).

Directions to NIST Robot Test ...

The meeting will focus on further development of our draft workshop program with tentative agenda.

We will discuss potential presenters and panelists for the sessions. Please see the attached **revised Workshop flyer** and **draft workshop program with agenda** that we developed on Wednesday, September 9th, with edits from Kamel Saidi, NIST and NRC staff and management.

WorkshopFlyer.... WorkshopAgen...

To participate in the meeting remotely, please call:

U.S. callers: 1-888-677-0358 with (b)(6) [redacted]

International callers: 1-210-234-7539 with (b)(6) [redacted]

To facilitate communications to those outside of our committee, I placed the workshop prospectus in our electronic retrievable library called ADAMS.

The link to the workshop prospectus is in the hypertext Workshop Prospectus .

hopProspectus.fin.
2...

Also attached is a directory of our organizing committee. Please review and edit where necessary.

Directory.docx

Thanks ....:. Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

Nicholson, Thomas

From: Nicholson, Thomas
Sent: Friday, September 18, 2015 4:54 PM
To: Gilbertson, Anders; andrew.Szilagyi@em.doe.gov; Marksberry, Don; judd@nuvisioneng.com; 'Buckingham, Rob'; Tateiwa, Kenji; 原 貴
Subject: FW: NEA document on needs for decommissioning
Attachments: R&D and Innovation Needs for Decommissioning Nuclear Facilities.pdf

Categories: Red Category

Anders, Andy, Don, Lurie, Rob, Kenji and Takashi:

Jack Parrott, NRC/NMSS provided this report for our individual use in preparing our sessions.

Thanks .... Tom

From: Parrott, Jack
Sent: Friday, September 18, 2015 3:52 PM
To: Nicholson, Thomas
Subject: NEA document on needs for decommissioning

Tom,

This is that NEA document I was telling you about. You will find several references to current and potential uses of robotics in decommissioning.

Jack

Jack D. Parrott
Senior Project Manager
US Nuclear Regulatory Commission
301-415-6634

Nicholson, Thomas

Subject:	Reminder: Organizational Meeting at NIST on September 9, 2015 @9:00 a.m. at the Robot Test Facility building
Location:	NIST Robot Test Facility building 207 (see attached NIST Directions)
Start:	Wed 09/09/2015 9:00 AM
End:	Wed 09/09/2015 12:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Nicholson, Thomas
Required Attendees:	'Jacoff, Adam S.'; kamel.saidi@nist.gov; Tateiwa, Kenji; 原 [illegible]; philip.mattson@hq.dhs.gov; andrew.Szilagyi@em.doe.gov; judd@nuvisioneng.com; Gilbertson, Anders; Marksberry, Don; Parrott, Jack; Bernardo, Robert; Burton, Thomas; 'Buckingham, Rob'; Zeng, Zhao Chang; Abu-Eid, Boby
Optional Attendees:	Coyne, Kevin; Correia, Richard; Sangimino, Donna-Marie; Rini, Brett; West, Steven; Flory, Shirley; Holonich, Joseph; CS_IRT; CSC; Chew, Elizabeth (Elizabeth.Chew@nrc.gov); Mario Gareri; Charles Watkins
Categories:	Red Category

Adam, Andy, Laurie, Kenji, Takashi, Phil, Charles, Anders, Don, Jack, Robert, Tom, and Rob:

Our next organizational meeting is scheduled for **Wednesday, September 9th @9:00 a.m. EDST** at the NIST Robot Test Facility, building 207 (please see attached NIST directions).

Directions to NIST Robot Test ...

The meeting will focus on development of the workshop agenda. We need to decide on the session co-chairs and candidates for presentations. Please see the **draft workshop program and agenda**.

WorkshopAgen...

For those planning to attend the subject meeting in person, **you need to send Kam Saidi, NIST your name, organization and citizenship** for him to pre-registered for the security access by **September 3rd** (since September 7th is a U.S. holiday, Labor Day). Kam Saidi and Adam Jacoff will provide a tour of the Robot Test Facility from 11: 30 a.m. to noon for those interested.

To participate in the meeting remotely, please call:

U.S. callers: 1-888-677-0358 with (b)(6)

International callers: 1-210-234-7539 with (b)(6)

To facilitate communications to those outside of our committee, I placed the workshop prospectus in our electronic retrievable library called ADAMS.

The link to the workshop prospectus is in the hypertext Workshop Prospectus .

Also attached is a directory of our organizing committee. Please review and edit where necessary.

Directory.docx

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

From: Nicholson, Thomas
Sent: Friday, August 28, 2015 1:12 PM
To: 'Jacoff, Adam S.'; kamel.saidi@nist.gov; Tateiwa, Kenji; 原 貴; philip.mattson@hq.dhs.gov; andrew.Szilagyi@em.doe.gov; judd@nuvisioneng.com; Gilbertson, Anders; Marksberry, Don; Parrott, Jack; Bernardo, Robert; Burton, Thomas; 'Buckingham, Rob'; Zeng, Zhao Chang
Cc: Sangimino, Donna-Marie; Rini, Brett; Abu-Eid, Boby
Subject: Organizational Meeting at NIST on September 9, 2015 @9:00 a.m. at the Robot Test Facility building
Attachments: Directions to NIST Robot Test Facility (v2013 1).pdf

Categories: Red Category

Adam, Andy, Laurie, Kenji, Takashi, Phil, Charles, Anders, Don, Jack, Robert, Tom, and Rob:

Our next organizational meeting is scheduled for **Wednesday, September 9th @9:00 a.m. EDST** at the NIST Robot Test Facility, building 207 (please see attached NIST directions).

The meeting will focus on development of the workshop agenda. We need to decide on the session co-chairs and candidates for presentations.

For those planning to attend the subject meeting in person, **you need to send Kamel Saidi, NIST, your name, organization and citizenship** for him to pre-register you for security access by **September 3rd** (since September 7th is a U.S. holiday, Labor Day).

To participate in the meeting remotely, please call:

U.S. callers: 1-888-677-0358 with (b)(6)

International callers: 1-210-234-7539 with (b)(6)

To facilitate communications to those outside our committee, I placed the workshop prospectus in our electronic retrievable library called ADAMS.

The link to the workshop prospectus is in the hypertext Workshop Prospectus .

Thanks .... Tom

P.S. I earlier sent a meeting appointment scheduler to you but it seems to have failed to go through. Sorry if there is a repeated message.

****

Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471

Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

Nicholson, Thomas

Subject:	Ad Hoc Meeting to fully define and finalize Workshop Prospectus
Location:	NIST Robot Test Facility, Gaithersburg, MD
Start:	Tue 07/28/2015 9:00 AM
End:	Tue 07/28/2015 5:00 PM
Recurrence:	(none)
Meeting Status:	Meeting organizer
Organizer:	Nicholson, Thomas
Required Attendees:	judd@nuvisioneng.com; 'Tateiwa, Kenji'; andrew.Szilagyi@em.doe.gov; Jacoff, Adam S.; jrenshaw@epri.com; 'philip.mattson@hq.dhs.gov'; 'kamel.saidi@nist.gov'; Marksberry, Don; Bernardo, Robert; Csontos, Aladar; Parrott, Jack; 'koi@k.u-tokyo.ac.jp'; West, Steven; Rini, Brett; Sangimino, Donna-Marie; Abu-Eid, Boby; Price, Drew R. (ARC-VE) [WYLE LABS] (drew.price@nasa.gov); 'jason.averill@nist.gov'; Rinker, Michael; 'Buckingham, Rob'; Correia, Richard; Coyne, Kevin; 'Awad, Raoul'; 'Tavasoli, Vali'; 'V.Michal@iaea.org'; Ibrahim, Eman; Vucetic, Jasmina; El Dabaghi, Nadine; YongChang.Liu@cnsc-ccsn.gc.ca; Zhaochang.Zeng@cnsc-ccsn.gc.ca
Categories:	Red Category

Adam Jacoff, Phil Mattson, Andy Szilagyi, Laurie Judd, Kenji Tateiwa, Denda Yasutaka, Kam Saidi, Anders Gilbertson and Don Marksberry:

The Ad Hoc committee (you are its members) will meet at NIST's Robot Test Facility (see attached map and directions),

Directions to NIST Robot Test ...

tomorrow, Tuesday, July 28th to fully define and finalize the workshop prospectus (see attached July 27th draft which incorporates DOE's suggestions).

WorkshopProsp...

DOE.suggestion...

We will begin our meeting at 9:00 a.m. EDST (10:00 p.m. JST) and continue until the draft prospectus is accomplished.

Attached is the tentative ad hoc meeting agenda:

AgendaJuly28.d...

Kenji Tateiwa, TEPCO has arranged for a teleconference line:

Call-in number: 1-718-354-1184 (U.S.) +81 3 6328 1974 (Tokyo)

(b)(6)

Thanks for your interest and commitment to meet on July 28th at NIST to finalize the prospectus.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop TWFN 10-A12
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 415-2471
Fax: (301) 415-6671
E-mail: Thomas.Nicholson@nrc.gov
****

Nicholson, Thomas

Subject:	Third Organizational Meeting for International Workshop on the Use of Robotics at Nuclear Facilities - Update
Location:	Teleconfernce at 1-888-677-0358
Start:	Fri 05/29/2015 2:30 PM
End:	Fri 05/29/2015 4:00 PM
Show Time As:	Tentative
Recurrence:	(none)
Meeting Status:	Not yet responded
Organizer:	Nicholson, Thomas
Required Attendees:	'Jacoff, Adam S.'; philip.mattson@hq.dhs.gov; andrew.Szilagyi@em.doe.gov; kamel.saidi@nist.gov; Marksberry, Don; Bernardo, Robert; Csontos, Aladar; Parrott, Jack; koi@k.u-tokyo.ac.jp; 'Tateiwa, Kenji'; Bill Levitan (william.levitan@em.doe.gov); West, Steven; Rini, Brett; Sangimino, Donna-Marie; jrenshaw@epri.com; judd@nuvisioneng.com; Abu-Eid, Boby; Camper, Larry; brittany.N.Kimball@nasa.gov
Categories:	Red Category

Adam, Kam, Phil, Andy, Don, Bob, Al, Jack, Kenji, Bill, Jeremy, Laurie and Steve:

Please attend our next meeting via teleconferencing to further develop the subject workshop prospectus.

The call-in number is **1-888-677-0358** with (b)(6) followed by the **#** sign.

At our last meeting, we decided to have the subject workshop at the NIST auditorium on the afternoon of December1, and all day on December 2 and 3.

We also agreed to begin the workshop at 1:00 p.m. on Tuesday, December 1st with a tour of the NIST Robot Testing Facility (please see: http://www.nist.gov/el/isd/ms/roboticsbldg.cfm) later that afternoon.

I have attached the meeting agenda, and REVISED draft workshop prospectus.

Agenda.05-29-2015 (4).docx

WorkshopProsp...

For the moment the workshop sponsors identified are NIST, U.S. NRC, DHS and DOE. We would like to add others such as TEPCO, IRID, EPRI and the U.K. NDA.

Please send me any contacts you may have at NASA and DOD so that we can invite them to attend our next meeting.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop CSB 2-A07
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 251-7498
Fax: (301) 251-7422
E-mail: Thomas.Nicholson@nrc.gov
****

Page 1769 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: <Nicholson>, Thomas <Thomas.Nicholson@nrc.gov>
Date: Friday, February 6, 2015 at 11:55 AM

To: "andrew.Szilagyi@em.doe.gov" <andrew.Szilagyi@em.doe.gov>, "Adam S. Jacoff" <adam.jacoff@nist.gov>, "Norton, Charles" <Charles.Norton@nrc.gov>, "Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp>
Cc: "West, Steven" <Steven.West@nrc.gov>, "Madden, Patrick" <Patrick.Madden@nrc.gov>, "Correia, Richard" <Richard.Correia@nrc.gov>, "Rini, Brett" <Brett.Rini@nrc.gov>
Subject: Possible Dates to visit NIST Robotics Laboratory

Adam and Andrew:

Below is Kenji's availability. I suggest February 19th as a good date.

Please let us know your availability.

Thanks .... Tom

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 05, 2015 6:40 PM
To: Nicholson, Thomas
Subject: Re: Follow-Up to Discussions on Robotics at Nuclear Facilities

Tom,

Thank you for your call today regarding a visit to NIST.

I am available all day on the following dates (preferably in the morning):
Thu, Feb. 19
Fri, Feb. 20
Thu, Feb. 26

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116 (b)(6)

Outside of Scope

Page 1772 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1773 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1774 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1775 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Nicholson, Thomas

From:	Nicholson, Thomas
Sent:	Tuesday, June 17, 2014 5:19 PM
To:	West, Steven; tateiwa.kenji@tepco.co.jp; Correia, Richard; Madden, Patrick
Cc:	Tadesse, Rebecca; Figueroa, Gladys; Aird, David; Rini, Brett; Shaffer, Vered
Subject:	High-Ranking EPA official to attend RES Seminar, June 30th (revised notice)
Attachments:	Peter-Jutro-Bio-2013.pdf; High-Ranking EPA official to attend RES Seminar, June 30th (revised notice); High-Ranking EPA official to attend RES Seminar, June 30th (revised notice)

Steve, Kenji, Rich and Pat:

I wanted to inform you that Dr. Peter Jutro, Acting Associate Administrator for Homeland Security at the U.S. Environmental Protection Agency (EPA) will be attending the RES Seminar on June 30, 2014.

Attached is Dr. Jutro's previous biographical sketch (he is presently Acting Associate Administrator for Homeland Security at EPA).

He is a member of The White House's Office of Science and Technology Policy's Subcommittee on Disaster Reduction.

Thanks .... Tom

****
Thomas J. Nicholson, Senior Technical Advisor
U.S. Nuclear Regulatory Commission
Office of Nuclear Regulatory Research
Mail Stop CSB 2-A07
11555 Rockville Pike
Rockville, MD 20852
Tel: (301) 251-7498
Fax: (301) 251-7422
E-mail: Thomas.Nicholson@nrc.gov
****

Page 1777 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1778 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1779 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1780 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1781 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1782 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1783 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1784 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1785 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1786 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1787 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1788 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1789 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1790 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1791 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1792 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1793 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1794 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1795 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, October 02, 2015 9:09 AM
To: 'Tateiwa, Kenji' <tateiwa.kenji@tepco.co.jp>
Subject: [External_Sender] [TEPCO Fukushima Update Call] Mon, Oct. 5, 2015 at 9 am EDT/2 pm BST/10 pm JST

Friends and Colleagues,

Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.

[Date/time]
Mon, Oct. 5, 2015 at 9 am U.S. Eastern Daylight Time
2 pm British Summer Time
10 pm Japan Standard Time
(Next call: Mon, Nov. 2 at 8 am EST/1 pm GMT/10 pm JST.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)

Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (9/28/2015)
(Japanese)
1-1. Seawater and Ground Water Sampling Results (8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_03-j.pdf

1-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_04-j.pdf

1-3. Solid Radioactive Waste Storage
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_09-j.pdf

1-4. Progress on Contaminated Water Issues (14 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_13-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/1/2015)
(Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_05-j.pdf
(English translation as of 8/27/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150827_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_06-j.pdf

2-4. Preparation for Fuel Removal from Spent Fuel Pools (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_07-j.pdf

2-5. Preparation for Fuel Debris Removal (5 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_10-j.pdf

2-8. Environmental Radiation Issues (file size: 17 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_11-j.pdf

3. "A Study of the Fukushima Daiichi Nuclear Accident Process"
English translation of a book written by Dr. Michio Ishikawa, a world-renowned nuclear safety expert.
Although TEPCO does not necessarily agree with all of his hypotheses in this book, we believe it provides valuable insights.
http://www.springer.com/us/book/9784431555421

[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, August 28, 2015 11:22 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Aug. 31, 2015 at 9 am EDT/10 pm JST

Friends and Colleagues,

Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.

[Date/time]
Mon, August 31, 2015 at 9 am U.S. Eastern Daylight Time
(Next call: Mon, Oct. 5 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]

1. Nuclear Reform Monitoring Committee (8/24/2015)
(English)
http://www.nrmc.jp/en/report/detail/1258279_5233.html

1-1. Current status of Fukushima Daiichi
http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E2.pdf

1-2. Overview of Nuclear Safety Reform Plan Progress Report
http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E6.pdf

2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/25/2015)
(Japanese)

2-1. Seawater and Ground Water Sampling Results (10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_03-j.pdf

2-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_04-j.pdf

2-3. Unit 3 SFP Large Rubble Removal Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_05-j.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2015/201508-e/150804-01e.html

2-4. Action Plan for Offsite Impact Risks
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_06-j.pdf

2-5. Disclosure of All Radiation-related Data
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_09-j.pdf
(related website)
http://www.tepco.co.jp/decommision/planaction/monitoring2/index-j.html

2-6. Progress on Contaminated Water Issues (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_13-j.pdf

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)

3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_04-j.pdf

3-2. Summary Status of Decommissioning Roadmap (file size: 9 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_05-j.pdf
(English translation as of 7/30/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150730_01-e.pdf

3-3. Contaminated Water Issues (file size: 23 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_06-j.pdf

3-4. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_07-j.pdf

3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf

3-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_09-j.pdf

3-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_10-j.pdf

3-8. Environmental Radiation Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_11-j.pdf

All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,

I hope this email finds you well.

A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.

I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)

Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.

[Date/time]
Mon, August 3, 2015 at 9 am U.S. Eastern Daylight Time
(Next call: Mon, Aug. 31 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html

4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing

All the best,
Kenji

Campbell, Shawn

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 9:47 AM
To: tateiwa.kenji@tepco.co.jp
Subject: [External_Sender] Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,

I hope this email finds you well.

A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.

I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)

Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.

[Date/time]
Mon, August 3, 2015 at 9 am U.S. Eastern Daylight Time
(Next call: Mon. Aug. 31 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)

Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)
1-1. Plant Status

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html

4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkuq9aU9tX0FJS2pPenM/view?usp=sharing

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,

Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Scott, Harold

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Tuesday, April 14, 2015 10:00 PM
To: Madden, Patrick; West, Steven; Bernardo, Robert; Aird, David; koi@k.u-tokyo.ac.jp; andrew.Szilagyi@em.doe.gov; philip.mattson@hq.dhs.gov; kamel.saidi@nist.gov; 'Jacoff, Adam S.'; Nicholson, Thomas
Subject: Re: First organizational meeting to plan the November 2015 Workshop on the Use of Robotics at Nuclear Facilities

Tom and all,

Please find below links to the results of investigation inside Unit 1 drywell conducted on April 10th.

[Slides]
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2015/images/handouts_150413_01-e.pdf

[Photos and Video]
http://photo.tepco.co.jp/en/date/2015/201504-e/150413-01e.html

Although the robot unfortunately got stuck inside the drywell and had to be abandoned, we obtained invaluable data.

The same type of robot will be inserted into the drywell on April 15 at 9 am Japan time and will investigate clockwise inside the drywell.

[Slides: only in Japanese]
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150415_01-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office

From: Tateiwa, Kenji
To: Lee, Richard
Cc: yamanaka.yasunori@tepco.co.jp; mizokami.shinya@tepco.co.jp
Subject: OECD/NEA Fukushima Workshop in Paris
Date: Wednesday, June 06, 2012 7:36:07 PM

Dear Richard,

You are most welcome.

As for the TEPCO timeline, I don't think there has been any updates since the Dec. 22nd, 2011 timeline shown below.
http://www.tepco.co.jp/en/press/corp-com/release/11122208-e.html

Since the English translation of the above timeline was not available until the early part of this year, I think SNL and ORNL did not have time to incorporate all of the additional information in their MELCOR analyses.

Yamanaka-san, General Manager of TEPCO's nuclear safety engineering group (copied in this email), will be attending the NEA workshop to be held in Paris this month.

Would you be representing the NRC in this workshop?

All the best,
Kenji

----- Original Message -----
From: Lee, Richard
To: Tateiwa, Kenji
Sent: Wednesday, June 06, 2012 9:58 AM
Subject: RE: Estimation of radioactivity release from Fukushima Daiichi

Dear Kenji:

Thank you very much for your response. Appreciate your explanation.

I would like to ask you about the status of TEPCO timeline. At the EPRI meeting in May, I think it was mentioned that the time line has been updated since December 2011. You are also aware of the NEA led Fukushima workshop scheduled for June 18-20 at NEA Headquarter. Do you think by then, the latest timeline will be made available to the participants? For the GOJ, this activity is headed by Koichi Noda of METI.

I do not know who from TEPCO is coming to the NEA meeting. Would you be able to convey to the TEPCO staff attending the meeting to address (i) the validity of instrumentation readings (i.e., some readings are more reliable than others), and (ii) the operation (or lack of operation) of the IC in 1F.

Best regards,
Richard

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, May 31, 2012 6:11 PM
To: Lee, Richard
Subject: Estimation of radioactivity release from Fukushima Daiichi

Richard,

Thank you for your email. It was nice seeing you, too.

I checked the original report (only in Japanese) of estimation of radioactivity release. but could not find the number 160,000 terabecquerel quoted in the article.
http://www.tepco.co.jp/cc/press/betu12_j/images/120524j0105.pdf

In page 14 (the page number indicated in the bottom) of our report you will find 2 tables.
The second table describes the estimated release from Unit 2 (direct release from the building, not venting) on March 15th as follows:

Noble gas: 100 PBq
I-131: 100 PBq
Cs-134: 2 PBq
Cs-137: 2 PBq

As for your second question, I do not think we calculated the contamination area solely due to the March 15th release from Unit 2.
The bottom figure in page 45 of our report compares the actual Cs-137 deposition study results conducted by MEXT and the calculation results using the code DIANA in our study.

For example, red denotes area where actual deposition of Cs-137 is greater than 3,000 kBq/m^2.
Thick black contour denotes calculated deposition of Cs-137 is 3,000 kBq/mm^2.
The direction of dispersion being north-west is in agreement, but quantitatively, there is quite a bit of disparity.

Hope this helps.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard
To: tateiwa.kenji@tepco.co.jp
Sent: Thursday, May 31, 2012 4:08 PM
Subject: A request for information

Hi, Kenji:

It was nice meeting you again at the EPRI meeting, and at NRC Fukushima Steering Committee meeting.

Recently in the news, the following was quoted.

"***TEPCO Says No. 2 Reactor Was The Main Source Of Radiation In The Area.*** The Yomiuri Shimbun (Japan) (5/26, 13.8M) reported, "Tokyo Electric Power Co. has revealed that the damaged containment vessel of the No. 2 reactor at its Fukushima No. 1 nuclear power plant was the main

source of radiation contamination in litate and neighboring areas in northeastern Fukushima Prefecture." TEPCO said Thursday that the "damaged No. 2 reactor's containment vessel released an estimated 160,000 terabecquerels of radioactive substances on March 15, causing the soil in litate and surrounding areas to become heavily contaminated. One terabecquerel is equal to 1 trillion becquerels."

Please let us know –

(a) How much of 160,000 terraBq was Cs-137?
(b) How many square kilometers of land was contaminated with that amount of Cs?

Look forward to hearing from you.

Best regards,
Richard

BEST AVAILABLE COPY

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Re: Inquiry on a recrnt release report
Date: Tuesday, June 26, 2012 9:44:01 PM

Richard,

Thank you for your note.
I am glad to hear that you were able to meet with Yamanaka-san at the NEA meeting.

I am not aware of a new report that professor Okamoto mentioned.
TEPCO's hypothesis for the Unit 4 explosion has not changed from hydrogen migrating into Unit 4 from Unit 3 via the SGTS common exhaust line.

We have conducted analysis for core-concrete interaction and issued a report on Nov. 30, 2011.
In this report, we estimated the ex-vessel core debris to be 63% of the entire core for Unit 3 and with various assumptions, assumed that the core-concrete interaction will erode the D/W pedestal up to 0.2 meters.
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_111130_06-j.pdf

We have not incorporated the possible generation of CO due to core-concrete interaction into the hypothesis of Unit 4 explosion.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard
To: tateiwa.kenji@tepco.co.jp
Sent: Tuesday, June 26, 2012 2:24 PM
Subject: Inquiry on a recrnt release report

H, Kenji:

It was nice meeting your colleague, Mr. Yamanaka at last week at the NEA "TEPCO's Fukushima Daiichi NPPs Accident Analysis" meeting. During the meeting, inquiry was made on what cause the 1F4 reactor building to blow up. The event took place 24 hours after the venting of 1F3. If it hydrogen combustion, why it sat around 24hrs? Perhaps, it is CO! That's translate to there is molten core concrete interaction is taking place in 1F3 (and CO migrated to 1F4 reactor building??)

Professor Koji Okamoto mentioned that a report discussing this has been published. But, I think it is still in Japanese and has not been translated.
Do you know the cause of the detonation in 1F4 rector building?

Best regards,
Richard

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Re: RCIC related information
Date: Wednesday, August 14, 2013 9:03:04 PM

Richard,

No problem.
Look forward to receiving your request.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard
To: Tateiwa, Kenji
Sent: Wednesday, August 14, 2013 5:40 PM
Subject: RCIC related information

Hi, Kenji:

Sorry that I missed your phone call yesterday. Today we were tied with the public meeting in filtered containment venting (NTTF 5.1).

NRC and SNL are involved in improving our modeling of RCIC operation (i.e., to capture as best as we can realistically). Since, we have done MELCOR analysis for Fukushima 1F2, we like to obtain some fundamental information on 1F2 to do a better analysis of RCIC operation during the event. SNL used the Peach Bottom MELCOR deck to simulate Fukushima analysis.

I will send a request to you for information early next week. Anything you can do is appreciate it.

Best regards,
Richard

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Re: [EXTERNAL] FW: Cleanup of 1F# spent fuel pool
Date: Tuesday, February 26, 2013 2:48:10 PM

Thanks, Richard.

I will share Dr. Powers' suggestion with our team in Japan.

All the best,
Kenji

----- Original Message -----
From: Lee, Richard
To: tateiwa.kenji@tepco.co.jp
Sent: Tuesday, February 26, 2013 2:41 PM
Subject: FW: [EXTERNAL] FW: Cleanup of 1F# spent fuel pool

Hi, Kenji:

The following is a response from Dr. Powers. He suggests getting some more analyses in order to develop a spent fuel pool chemistry model. Appreciate your assistance.

Best,
Richard

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Tuesday, February 26, 2013 9:11 AM

To: Lee, Richard
Subject: Re: Cleanup of 1F# spent fuel pool

Dear Richard,

Please refer to the following presentation at the Government-TEPCO Joint Meeting on Decommissioning dated Oct. 22, 2012 discussing water processing of SFPs of Units 1-4.
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01k.pdf

Water sampling is being conducted periodically.
The upper half of page 2 shows a table with analysis results of water samples with data on pH, conductivity, Cl concentration, Cs-134 and Cs-137 concentration (data for Unit 3 SFP is the 2nd row from the bottom; sampled on Sep. 28, 2012).
The upper half of page 4 shows a trend graph of Unit 3 SFP water sample data (pink: Cs-137, yellow: Cs-134, dark blue: Cl)
Let me know if you have any questions.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard
To: tateiwa.kenji@tepco.co.jp
Sent: Tuesday, February 26, 2013 8:08 AM
Subject: Cleanup of 1F# spent fuel pool

Dear Kenji:

We understood that a major cleanup effort is taking place in the unit 3 spent fuel pool at Fukushima. Dr. Powers of SNL asks us whether information on water composition (not just radionuclides) and pH being collected.

Look forward to hearing from you.

Best regards,
Richard

From: Tateiwa, Kenji
To: Norton, Charles
Cc: Skeen, David; Orders, William; Marksberry, Don; Lee, Richard; Salay, Michael; Esmaili, Hossein; Nakanishi, Tony; Randy Gauntt
Subject: Re: Experts cast doubt on reactor cooling strategy (1F3)
Date: Tuesday, March 12, 2013 11:58:52 PM

Chuck,

At Fukushima Daiichi, we injected sea water from fire trucks via fire protection system and make-up water condensate system (MUWC) as alternate core injection.
MUWC is connected to various system and we recognized that there is a possibility of bypass flow that would not reach the core.

However, during the accident the top priority was to inject water into the core as soon as possible, and therefore we could not divert resource to isolate multiple valves to eliminate bypass flow.
Also, we could only measure the flow rate from the fire trucks and not the exact flow rate that reached the core.

We eventually switched from MUWC to feedwater system as injection path to the core to minimize bypass flow.
Also, we have implemented various modifications at our Kashiwazaki-Kariwa site to enhance reliability of alternate core injection.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Norton, Charles
Cc: tateiwa.kenji@tepco.co.jp ; Skeen, David ; Orders, William ; Marksberry, Don ; Lee, Richard ; Salay, Michael ; Esmaili, Hossein ; Nakanishi, Tony ; Randy Gauntt
Sent: Monday, March 11, 2013 7:28 AM
Subject: Re: Experts cast doubt on reactor cooling strategy (1F3)

Chuck,

I can clarify this discussion.
However, I am now in Cambridge, MA to talk to MIT and Harvard students on Fukushima today and tomorrow and may not have enough time to put together a response.
I will try to get back to you as soon as possible.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1814 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Re: A question related to Fuksuhima spent fuel pool
Date: Wednesday, December 18, 2013 11:17:17 AM

Richard,

I do not believe TEPCO has made clear statement saying that there is no evidence of damage in the pool.

However, we have taken samples of pool water and made comments that the origin of radioactivity is likely from the reactor.
See for example, pages 410-460/643 of attachment to TEPCO's internal investigation report(29 MB file.)
http://www.tepco.co.jp/en/press/corp-com/release/betu12_e/images/120620e0106.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

On Wed, 18 Dec 2013 10:39:51 -0500
"Lee, Richard" <Richard.Lee@nrc.gov> wrote:

> Hi, Kenji:
> Has TEPCO made any statement that despite reactor buildings blowing up and things falling into the pools in 1F1, 1F2 and 1F4, there is no evidence that spent fuel stored in these 3 pools have been damaged?
> Thanks, Richard

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Re: Emailing: Agency plans to re-create 'meltdown' - The Japan News.htm
Date: Monday, January 13, 2014 1:10:48 PM

Richard,

Thank you for the link.

According to the Ibaraki Shimbun, Tomoyuki Sugiyama of JAEA is quoted as saying "we would like to make use of the data obtained from the experiment to improve accuracy of Fukushima accident analysis."
http://ibarakinews.jp/news/news.php?f_jun=13892771702784

I have no more insights than what is reported by the media at this moment.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard
To: 'tateiwa.kenji@tepco.co.jp'
Sent: Monday, January 13, 2014 12:15 PM
Subject: Fw: Emailing: Agency plans to re-create 'meltdown' - The Japan News.htm

Hi, Kenji:
Contary to this reporting, Hideo Nakamura of JAEA mentoned that it is not related finding out what occurs in Fukushima.
Hope you can tell me what your opinion is.
Thanks, Richard

Sent from nrc blackberry
(b)(6)
Richard Lee

Outside of Scope

Page 1817 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Fw: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 5 at 3pm EDT
Date: Friday, September 05, 2014 9:25:40 AM

Richard,

Good talking to you yesterday.

Please find below an email that I sent out last night notifying my weekly update call.
(Let me know if you would like to be included in the distribution list.)

The following material might be of particular interest to the NRC regarding verification of your water flow model.

3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140826_03-j.pdf

Unfortunately, it is in Japanese, but it describes the various radionuclides concentration trend data on site of Fukushima Daiichi.

See you next week at the IMUG meeting in Bethesda.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, September 05, 2014 12:22 AM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 5 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 5, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri, Sept. 12** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Inadvertent Drop of Fuel Handling Machine Console in Unit 3 SFP (9/1/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140901_04-j.pdf

(video)
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=g3bg9917&catid=61785

2. Unit 2 S/C Lower Outer Surface Inspection Results (9/4/2014)
(only in Japanese)

http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140904_06-j.pdf

3. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/26/2014)
(only in Japanese)

3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140826_03-j.pdf

3-2. Response to Issues Raised at the Meeting
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140826_04-j.pdf

4. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/28/2014)
(only in Japanese)

4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_04-j.pdf

4-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_05-j.pdf

4-3. Water Treatment
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_07-j.pdf

4-4. Reduction of Radioactivity Release to the Environment
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_08-j.pdf

4-5. Spent Fuel Pool Related Activities
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_10-j.pdf

4-6. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_11-j.pdf

4-7. Radioactive Waste Disposal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_12-j.pdf

4-8. Selection of Demonstration Testing of Tritium Separation Technologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140828_14-j.pdf

5. IRID Guideline of Requirement for Proposal on "the Feasibility Study of Essential Technologies for Internal RPV Investigation" (9/2/2014)
http://irid.or.jp/wp-content/uploads/2014/09/20140829_e.pdf

6. "The Unsung Heroes of Fukushima" (8/25/2014)
Commentary on Fukushima Daini by Professor Najmedin Meshkati (NAS Fukushima Committee Member)
http://www.japantimes.co.jp/opinion/2014/08/25/commentary/japan-commentary/unsung-heroes-fukushima/#.U_twmKOOrTp

7. "Workers grappled with darkness at start of Fukushima nuclear crisis" (9/2/2014)
Japan Times article on the vivid account of Fukushima Daiichi first responders.
http://www.japantimes.co.jp/news/2014/09/02/national/workers-grappled-darkness-start-fukushima-nuclear-crisis/#.VAZF_Kwj8wo

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

(Feel free to forward this email to your colleagues or have them contact me to be added to the distribution list.)

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji (b)(6)
To: Tateiwa, Kenji
Sent: Thursday, August 21, 2014 8:18 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 22 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 22, 2014 at 3 pm Eastern Daylight Time
(No call next week. Next call will be on **Fri, Sept. 5** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Demonstration Testing of Underwater Robot for Inspecting Lower-outer Surface of Torus (8/18/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140818_03-j.pdf

2. Verification Testing of High-performance ALPS (8/18/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140818_07-j.pdf
(photos: 8/20/2014)
http://photo.tepco.co.jp/_1212/140820-01j.html

3. NRA Special Facilities Monitoring and Evaluation Committee (8/19/2014)
(only in Japanese)
3-1. Status of Seawater Piping Trench "Ice Barrier" and Mockup Testing of Grout Injection, etc.
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140819_02-j.pdf

3-2. Estimated Release of Radioactivity Due to Unit 3 Reactor Building Rubble Removal
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140819_03-j.pdf

4. Construction Status of "Frozen Soil Wall" (8/21/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140821_05-j.pdf

5. Improved Process to Analyze Strontium-90 (8/19/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140819_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 14, 2014 6:43 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 15 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, **Aug. 15**, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri, Aug. 22** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Verification Testing of Subdrain Water Treatment Facility (8/11/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140811_04-e.pdf

2. Measures to Reduce Seawater Contamination (8/11/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140811_03-e.pdf

3. Difference between Ice Barrier of Trench and Frozen Soil Wall (8/5/2014)
(video clip)
https://www.youtube.com/watch?v=C6YSOrfS1Kc

4. Retiring Areva Water Treatment Facility (8/11/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140811_07-j.pdf

5. Construction Plan for Additional Solid Waste Storage Warehouse (8/13/2014)
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu14_j/images/140813j0209.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 07, 2014 5:16 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 8 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 8, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri. Aug. 15** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Plan Towards a Full-Scale Operation of the Multi-Nuclide Removal Facility (ALPS) (7/31/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d140731_01-e.pdf

2. Unit 1 Reactor Building Cover to be Dismantled (8/1/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1239910_5892.html
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140801_01-e.pdf

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/31/2014)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140731_04-j.pdf
(page 6/8) Contaminated water storage volume trend.

3-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140731_05-j.pdf
(page 9/21) Seawater sampling results (inside the port)
(page 10/21) Seawater sampling results (outside the port)

3.3 Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140731_06-j.pdf
(page 3/300) Unit 1 RPV nitrogen purging from jet pump sensing line
(page 27/300) Construction status of frozen soil wall
(page 28/300) Status of ice barrier at Unit 2 seawater piping trench
(page 75/300) Estimated reduction of groundwater ingress by waterproofing HTI building
(page 121/300) Covering sea-bottom soil inside the port
(page 197/300) Unit 4 reactor building periodic integrity inspection results (9th)
(page 225/300) IRID development of PCV repair and waterproofing technologies
(page 260/300) IRID development of PCV internal investigation technologies
(page 272/300) IRID development of RPV internal investigation technologies
(page 282/300) IRID development of core debris criticality control technologies

4. Regulatory Approval for Subdrain Processing Facility and Verification Facility of Advanced ALPS (8/7/2014)
(only in Japanese)
http://www.tepco.co.jp/cc/press/2014/1240299_5851.html

5. Nuclear Safety Reform Plan FY2014-Q1 Progress Report (8/1/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1239901_5892.html
(video message by Dr. Dale Klein, Chairman of TEPCO's Nuclear Reform Monitoring Committee)
http://www.nrmc.jp/en/report/detail/1239770_5233.html

6. Fukushima Nuclear Accident Unresolved Issues Progress Report # 2 (8/6/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1240140_5892.html

(English Summary)
http://www.tepco.co.jp/en/press/corp-com/release/betu14_e/images/140806e0101.pdf
(Japanese Full Report: 23 MB)
http://www.tepco.co.jp/cc/press/betu14_j/images/140806j0102.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 30, 2014 8:46 PM
Subject: [TEPCO Weekly Fukushima Update Call] THU, July 31 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
THU, July 31, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri. Aug. 8** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 Torus Room Wall Survey (7/29/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140728_05-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=c24iaxhc&catid=61785

2. NRA Special Facilities Monitoring and Evaluation Committee (7/23/2014)
(only in Japanese)
2.1 Progress Status on Freezing of Units 2/3 Seawater Piping Trench Connection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_01.pdf

2.2 Unit 1 Reactor Building Dust Inhibition Measures During Cover Dismantling and Rubble Removal
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_02.pdf

2.3 Replacement of Fuel Rack in Common Pool
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_03_01.pdf

2.4 Fuel Removal Plan for Unit 3 Spent Fuel Pool
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_03_02.pdf

3. Contaminated Water Treatment Committee (7/25/2014)
(only in Japanese)
3.1 Risk Reduction Owing to Contaminated Water Measures
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140725_03-j.pdf

3.2 Status and Effectiveness of Groundwater Bypass
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140725_04-j.pdf

3.3 Tritium Concentration Increase in # 12 Groundwater Bypass Well
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140725_05-j.pdf

3.4 Task Force Studies on Frozen Soil Wall
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140725_07-j.pdf

3.5 Test Results and Demonstration Status of Advanced Multi-Nuclide Removal System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140725_08-j.pdf

3.6 Tritium Task Force Discussions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140725_09-j.pdf

4. National Academy Sciences Fukushima Lessons Learned Report (7/24/2014)
http://www8.nationalacademies.org/onpinews/newsitem.aspx?RecordID=18294
(TEPCO's Statement on the NAS Report)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1239621_5892.html

All the best,
Kenji

Lee, Richard

From: Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp>
Sent: Tuesday, March 24, 2015 7:17 PM
To: Lee, Richard
Subject: Contaminated water report in Japanese Re: A reqeust

Dear Richard,

How about this one:
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150316_03-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

On Tue, 24 Mar 2015 18:07:00 -0400
"Lee, Richard" <Richard.Lee@nrc.gov> wrote:

> Dear Kenji:
>
> Please advise on any recent report related to measurement of contaminated water (Cs, etc.) in your water cleanup loop that is in Japanese. One of our staff is finishing a course in Japanese and one of the assignments is to translate a Japanese document to English.
>
> Look forward to hearing from you,
>
> Best regards,
> Richard

BEST AVAILABLE COPY

From: Tateiwa, Kenji
To: Resident Researcher - Yamada, Daichi; btwillia@tva.gov; Yasunori YAMANAKA; Wachowiak, Richard; Robb, Kevin R.; Joy Rempe; Plys, Martin G; Peko, Damian; Paik@fauske.com; roy.linthicum@exeloncorp.com; Lee, Richard; Luangdilok, Wison; Randall O' "Gauntt; Jeff R. Gabor; Francis, Matthew W.; Mitchell T. Farmer; phillip.ellison@ge.com; corradin@engr.wisc.edu; RCBUNT@southernco.com; Basu, Sudhamay
Subject: 1F R/B Survey Maps [Material for Upcoming Forensics Expert Panel Discussions on May 27-28]
Date: Friday, May 22, 2015 11:17:29 AM

Joy and all,

Please find below radiation dose survey map inside the reactor buildings of 1F Units 1-6 (in Japanese.)

(Data obtained up to 5/8/2015)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20150508-j.pdf

(Data obtained up to 3/27/2014)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20140327-j.pdf

(Data obtained up to 3/22/2013)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20130322-j.pdf

(Data obtained up to 3/15/2013; only for Unit 1)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20130315-j.pdf

(Data obtained up to 2/27/2013; only for Unit 1)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20130227-j.pdf

Joy,

I will call you today (Fri, May 22) at 4 pm EDT to provide you with some comments on the material that you have prepared.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1828 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
To: Joy Rempe; Basu, Sudhamay; RCBUNT@southernco.com; corradin@engr.wisc.edu; phillip.ellison@ge.com; Mitchell T. Farmer; Francis, Matthew W.; Jeff R. Gabor; Randall O' Gauntt; Lee, Richard; roy.linthicum@exeloncorp.com; btwillia@tva.gov; Peko, Damian; Plys, Martin G; Joy Rempe; Resident Researcher - Yamada, Daichi; KRAFT, Steven; cristian.rabiti@inl.gov; dlluxat@erineng.com; Bob Lutz; Luangdilok, Wison; Palk@fauske.com; Robb, Kevin R.; Wachowiak, Richard; Yasunori YAMANAKA; Clayton, Dwight A.; Naser, Joseph
Subject: [1F Forensics Examination] Concrete Core Samples from Units-1/2 R/B
Date: Wednesday, May 27, 2015 12:25:49 PM

Joy and all,

Please see pages 224/231 to 231/231 of the material below for JAEA's analysis results for concrete core samples taken from the 1st floor of reactor buildings of Units 1 and 2 (dated Aug. 29, 2013.)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

Measurement of contamination from gamma, beta, and alpha radionuclides have been conducted.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1830 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

BEST AVAILABLE COPY

From: Tateiwa, Kenji
To: Joy Rempe; Basu, Sudhamay; RCBUNT@southernco.com; corradin@engr.wisc.edu; phillip.ellison@ge.com; Mitchell T. Farmer; Francis, Matthew W.; Jeff R. Gabor; Randall O' 'Gauntt; Lee, Richard; roy.linthicum@exeloncorp.com; btwillia@tva.gov; Peko, Damian; Plys, Martin G; Resident Researcher - Yamada, Daichi; KRAFT, Steven; cristian.rabiti@inl.gov; dlluxat@erineng.com; Bob Lutz; Luangdilok, Wison; Paik@fauske.com; Robb, Kevin R.; Wachowiak, Richard; Yasunori YAMANAKA; Clayton, Dwight A.; Naser, Joseph
Subject: [1F Forensics Examination] Units 1-4 SFP Isotopic Content
Date: Wednesday, May 27, 2015 3:47:45 PM
Attachments: Fukushima Spent Fuel Issues@NAS 01292015r1.pdf

All,

Please find attached TEPCO's presentation for the NAS Fukushima committee meeting on Jan. 29, 2015.

You can find isotopic content data for Units 1-4 SFPs in pages 8, 15, 21, and 31.

Source information is from TEPCO's investigation report.
http://www.tepco.co.jp/en/press/corp-com release-2012 1205638_1870.html

All the best,
Kenji

On Thu, 28 May 2015 01:25:39 +0900
"Tateiwa, Kenji" <tateiwa.kenji@tepco.co.jp> wrote:

> Joy and all,
>
> Please see pages 224/231 to 231/231 of the material below for JAEA's analysis results for concrete core samples taken from the 1st floor of reactor buildings of Units 1 and 2 (dated Aug. 29, 2013.)
> http://www.tepco.co.jp nu/fukushima-np roadmap images d130829 06-j.pdf
>
> Measurement of contamination from gamma, beta, and alpha radionuclides have been conducted.
>
> All the best,
> Kenji
> -------------------------
> Kenji Tateiwa
> Manager, Nuclear Power Programs
> Tokyo Electric Power Company
> Washington Office
> 2121 K Street, NW, Suite 910
> Washington, DC 20037
> tel: +1-202-457-0790 (ext.)116
> (b)(6)

Outside of Scope

Page 1833 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
To: Lee, Richard
Subject: Estimation of radioactivity release from Fukushima Daiichi
Date: Thursday, May 31, 2012 6:10:41 PM

Richard,

Thank you for your email. It was nice seeing you, too.

I checked the original report (only in Japanese) of estimation of radioactivity release, but could not find the number 160,000 terabecquerel quoted in the article.
http://www.tepco.co.jp/cc/press/betu12_j/images/120524j0105.pdf

In page 14 (the page number indicated in the bottom) of our report you will find 2 tables.
The second table describes the estimated release from Unit 2 (direct release from the building, not venting) on March 15th as follows:

Noble gas: 100 PBq
I-131: 100 PBq
Cs-134: 2 PBq
Cs-137: 2 PBq

As for your second question, I do not think we calculated the contamination area solely due to the March 15th release from Unit 2.
The bottom figure in page 45 of our report compares the actual Cs-137 deposition study results conducted by MEXT and the calculation results using the code DIANA in our study.

For example, red denotes area where actual deposition of Cs-137 is greater than 3,000 kBq/m^2.
Thick black contour denotes calculated deposition of Cs-137 is 3,000 kBq/mm^2.
The direction of dispersion being north-west is in agreement, but quantitatively, there is quite a bit of disparity.

Hope this helps.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard
To: tateiwa.kenji@tepco.co.jp
Sent: Thursday, May 31, 2012 4:08 PM
Subject: A request for information

Hi, Kenji:

It was nice meeting you again at the EPRI meeting, and at NRC Fukushima Steering Committee

meeting.

Recently in the news, the following was quoted.

"***TEPCO Says No. 2 Reactor Was The Main Source Of Radiation In The Area.*** The Yomiuri Shimbun (Japan) (5/26, 13.8M) reported, "Tokyo Electric Power Co. has revealed that the damaged containment vessel of the No. 2 reactor at its Fukushima No. 1 nuclear power plant was the main source of radiation contamination in litate and neighboring areas in northeastern Fukushima Prefecture." TEPCO said Thursday that the "damaged No. 2 reactor's containment vessel released an estimated 160,000 terabecquerels of radioactive substances on March 15, causing the soil in litate and surrounding areas to become heavily contaminated. One terabecquerel is equal to 1 trillion becquerels."

Please let us know –

(a) How much of 160,000 terraBq was Cs-137?
(b) How many square kilometers of land was contaminated with that amount of Cs?

Look forward to hearing from you.

Best regards,
Richard

From: Tateiwa, Kenji
To: Lee, Richard
Subject: [External_Sender] RE: [1F Forensics Report] Discussion with TEPCO Fuel Debris Removal Team
Date: Friday, August 07, 2015 9:58:50 PM

Hi Richard,

Thank you for your note.

I will be involved in SAREF and maybe in BSAF as well, so I look forward to continue working closely with you.

All the best.
Kenji

From: Lee, Richard [mailto:Richard.Lee@nrc.gov]
Sent: Friday, August 7, 2015 2:41 AM
To: Tateiwa, Kenji
Subject: RE: [1F Forensics Report] Discussion with TEPCO Fuel Debris Removal Team

Hi, Kenji:

Sorry that we did not have a chance to see you at TEPCO when Randy and I were in Tokyo in July. Perhaps, we can meet at the next BSAF Phase II meeting that will be held in Tokyo. The forensic information that the severe accident analysts are looking for has been articulated in the CSNI- NEA – SAREF "in-vessel melt progression." We work closely with IRSN on this.

Best regards,
Richard

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Wednesday, August 05, 2015 9:10 PM
To: 'Joy Rempe'; Basu, Sudhamay; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; Lee, Richard; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'; 'Amway, Phillip M:(GenCo-Nuc)'
Subject: [External_Sender] [1F Forensics Report] Discussion with TEPCO Fuel Debris Removal Team

Joy and all,

I have been involved in TEPCO's internal meetings to discuss what investigation should be done when conducting various entries into the reactor buildings and primary containments of 1F.

I provided the draft Forensics Report to my colleagues in charge of such investigations (their focus is fuel debris removal), and they are willing to take into consideration the requests included in the report (to the extent possible.)

They may ask you for clarification on why you would like to obtain certain information.
Although the rationale of your requests is described in the report, it may not be sufficient to justify the additional burden.

I will let you know when my colleagues come up with specific questions.
It may make sense to set up a teleconference between the TEPCO fuel debris removal team and your team at some point.

All the best,
Kenji

Outside of Scope

Page 1839 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1840 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1841 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
To: Algama, Don
Cc: Lee, Richard
Subject: [External_Sender] RE: RE: Documents Needed for Translating to English
Date: Monday, August 10, 2015 7:30:34 PM

BEST AVAILABLE COPY

Don,

Thank you
That would be very helpful for the English-speaking nuclear professionals.

All the best.
Kenji

From: Algama, Don [mailto:Don.Algama@nrc.gov]
Sent: Tuesday, August 11, 2015 12:08 AM
To: Tateiwa, Kenji
Cc: Lee, Richard
Subject: Re: RE: Documents Needed for Translating to English

Kenji:

I started work on this document over the weekend I am going to translate the whole document.

Thanks for the opportunity to do something positive for the Team

-Don A.

From: Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp>
Sent: Thursday, August 6, 2015 8:59 PM
To: Algama, Don
Cc: Lee, Richard
Subject: [External_Sender] RE: Documents Needed for Translating to English

Don,

Konnichiwa.
Thank you for your note and kind offer.

Please see below a notification email for the Fukushima Update Call that I conducted last week
I have received many feedback from participants that they would like to see an English translation of the following material.

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

It is a huge file and I am not asking you to translate it. but I thought it would be helpful for you to understand what kind of needs there are for translating Fukushima-related documents.

I look forward to working with you

All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon. Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,

I hope this email finds you well.

A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.

I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)

Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.

[Date/time]
Mon, August 3, 2015 at 9 am U.S. Eastern Daylight Time
(Next call: Mon, Aug. 31 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html

4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xziqQbkug9aU9tX0FJS2pPenM/view?usp=sharing

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Algama, Don [mailto:Don.Algama@nrc.gov]
Sent: Thursday, August 6, 2015 10:21 PM
To: tateiwa.kenji@tepco.co.jp
Cc: Lee, Richard
Subject: Documents Needed for Translating to English

Kenji:

Hello. I have recently graduated from a Japanese language school from the University of Wisconsin. If there are any technical Japanese documents that need to be translated to English, please let me know.

Thanks,
Don
A.

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Monday, November 28, 2011 9:00 AM
To: Yang, Rosa; Canavan, Ken; Rahn, Frank; Francis, Matthew W.; Ott, Larry J.; Gauntt, Randall O; maddoxje@inpo.org; mengsw@inpo.org; Peko, Damian; Shawn W St Germain; Marksberry, Don; Uhle, Jennifer; Heck, Charles (GE Power & Water); Klapproth, James F (GE Power & Water); Curtis L Smith; Bolger, Francis T. (GE Power & Water); SARIKAYA, BARIS (Power & Water); chuck.behrend@exeloncorp.com
Subject: Workshop on Estimation of Core Damage Condition of Fukushima Daiichi: Nov. 30th in Tokyo

Dear All,

For your information, METI announced on Nov. 25th that they will host a workshop on estimation of core damage condition of Fukushima Daiichi Units 1-3 as follows:

[Date] Wed. Nov. 30th 2 pm to 5 pm

[Place] METI Annex Building

[Participating institutions]
Japan Atomic Energy Agency (JAEA)
Japan Nuclear Energy Safety Organization (JNES)
Institute of Applied Energy (IAE)
TEPCO
METI
NRC
WANO

[Presentation Topics]
1. Post-accident plant behavior (TEPCO)
2. Estimation of current core damage status by data analysis (JAEA, TEPCO)
3. Estimation of current core damage status by simulation (TEPCO, JNES, IAE)
4. Panel discussion on how to enhance estimation precision of core damage condition (University of Tokyo, JNES, JAEA, IAE, TEPCO)

[Notes] Open to the public.

Press release (only in Japanese.)
http://www.meti.go.jp/press/2011/11/20111125009/20111125009.html

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office

1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Monday, November 28, 2011 8:00 AM

To: Yang, Rosa; Canavan, Ken; Rahn, Frank; Francis, Matthew W.; Ott, Larry J.; Gauntt, Randall O; maddoxje@inpo.org; mengsw@inpo.org; Peko, Damian; Shawn W St Germain; Marksberry, Don; Uhle, Jennifer; Heck, Charles (GE Power & Water); Klapproth, James F (GE Power & Water); Curtis L Smith; Bolger, Francis T. (GE Power & Water); SARIKAYA, BARIS (Power & Water); chuck.behrend@exeloncorp.com
Subject: Workshop on Estimation of Core Damage Condition of Fukushima Daiichi: Nov. 30th in Tokyo

Dear All,

For your information, METI announced on Nov. 25th that they will host a workshop on estimation of core damage condition of Fukushima Daiichi Units 1-3 as follows:

[Date] Wed, Nov. 30th 2 pm to 5 pm

[Place] METI Annex Building

[Participating institutions]
Japan Atomic Energy Agency (JAEA)
Japan Nuclear Energy Safety Organization (JNES)
Institute of Applied Energy (IAE)
TEPCO
METI
NRC
WANO

[Presentation Topics]
1. Post-accident plant behavior (TEPCO)
2. Estimation of current core damage status by data analysis (JAEA, TEPCO)
3. Estimation of current core damage status by simulation (TEPCO, JNES, IAE)
4. Panel discussion on how to enhance estimation precision of core damage condition (University of Tokyo, JNES, JAEA, IAE, TEPCO)

[Notes] Open to the public.

Press release (only in Japanese.)
http://www.meti.go.jp/press/2011/11/20111125009/20111125009.html

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [tateiwa.kenji@tepco.co.jp]
Sent: Wednesday, November 30, 2011 10:46 PM
To: Yang, Rosa; Canavan, Ken; Rahn, Frank; Francis, Matthew W.; Ott, Larry J.; Gauntt, Randall O; maddoxje@inpo.org; mengsw@inpo.org; Peko, Damian; Shawn W St Germain; Marksberry, Don; Uhle, Jennifer; Heck, Charles (GE Power & Water); Klapproth, James F (GE Power & Water); Curtis L Smith; Bolger, Francis T. (GE Power & Water); SARIKAYA, BARIS (Power & Water); chuck.behrend@exeloncorp.com
Subject: TEPCO Presentations for the Workshop on Estimation of Core Damage Condition of Fukushima Dailchi: Nov. 30th in Tokyo

Dear all,

Please find below a summary and links to TEPCO's report and presentations for the Nov. 30th workshop on estimation of core damage condition of Fukushima Daiichi Units 1-3.

[Summary]

a. Detailed core status was estimated based on various data and analyses such as the following:
- heat balance during the period without water injection into the core
- severe accident analysis code (MAAP)
- temperature indication inside the primary containment vessel (PCV)
- heat balance inside the reactor pressure vessel (RPV)
- water level indication
- radioactivity concentration inside the PCV

b. For Unit 1, most of the fuel is estimated to have dropped to the PCV. This is based on the fact that cumulative decay heat during the period before sea water injection was commenced significantly exceeded the heat absorption due to water injection, etc. and also based on the fact that RPV temperature had been low from early stage.

c. For Units 2 and 3, damage to the core is considered to be moderate compared to Unit 1 and the amount of fuel that dropped in the PCV is estimated to be less. This is based on the fact that cumulative decay heat during the period when water injection into the core stopped was within the level that could be absorbed by the evaporation of water that existed in the RPV at the beginning and also based on the behavior of RPV temperature dropping after injecting water into the RPV via core spray system.

d. Erosion of the PCV floor due to core-concrete interaction at Unit 1 is estimated to be approx. 70 cm based on realistic assumptions. The core, however, is believed not to have breached the bottom of the PCV, which is about 1.9 m further below where the core-concrete interaction is assumed to have stopped. Based on the results of PCV gas analysis, it is unlikely that core-concrete interaction is ongoing at this moment and thus the fuel is estimated to be remaining inside the PCV.

e. Even given the above estimate, fuel in all Units 1-3 are being cooled stably and TEPCO does not believe that it would have any significant impact on the achievement of cold shutdown condition.

f. At the May announcement. TEPCO estimated the fuel condition for Unit 1 having a broad range of possibility from being retained in the RPV to dropping into the PCV, and based on the then available information, estimated that most of the fuel remained in the RPV. However, after scrutinizing various data obtained after May, we came to the conclusion that by estimating that the fuel dropped in the PCV, the current condition can be better explained.

[Links to full report and presentations (only in Japanese)]

http://www.tepco.co.jp/nu/fukushima-np/images/handouts_111130_09-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_111130_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_111130_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_111130_05-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_111130_06-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Yang, Rosa ; Canavan, Ken ; Rahn, Frank ; Francis, Matthew W. ; Ott, Larry J. ; Gauntt, Randall O ; maddoxje@inpo.org ; mengsw@inpo.org ; Peko, Damian ; Shawn W St Germain ; Marksberry, Don ; Uhle, Jennifer ; Heck, Charles (GE Power & Water) ; Klapproth, James F (GE Power & Water) ; Curtis L Smith ; Bolger, Francis T. (GE Power & Water) ; SARIKAYA, BARIS (Power & Water) ; chuck.behrend@exeloncorp.com
Sent: Monday, November 28, 2011 9:00 AM
Subject: Workshop on Estimation of Core Damage Condition of Fukushima Daiichi: Nov. 30th in Tokyo

Dear All,

For your information, METI announced on Nov. 25th that they will host a workshop on estimation of core damage condition of Fukushima Daiichi Units 1-3 as follows:

[Date] Wed, Nov. 30th 2 pm to 5 pm

[Place] METI Annex Building

[Participating institutions]
Japan Atomic Energy Agency (JAEA)
Japan Nuclear Energy Safety Organization (JNES)
Institute of Applied Energy (IAE)
TEPCO
METI
NRC
WANO

[Presentation Topics]
1. Post-accident plant behavior (TEPCO)
2. Estimation of current core damage status by data analysis (JAEA, TEPCO)
3. Estimation of current core damage status by simulation (TEPCO, JNES, IAE)
4. Panel discussion on how to enhance estimation precision of core damage condition (University of Tokyo, JNES, JAEA, IAE, TEPCO)

[Notes] Open to the public.

Press release (only in Japanese.)
http://www.meti.go.jp/press/2011/11/20111125009/20111125009.html

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company

Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116

(b)(6)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [tateiwa.kenji@tepco.co.jp]
Sent: Saturday, January 21, 2012 2:54 PM
To: Peko, Damian; Marksberry, Don; Uhle, Jennifer; Francis, Matthew W.; Shawn W St Germain; Ott, Larry J.; Gauntt, Randall O; Yang, Rosa; Canavan, Ken; Rahn, Frank; Jeff R. Gabor; maddoxje@inpo.org; mengsw@inpo.org; Gard, Lee A (INPO); Nielsen, Rick M (INPO); Heck, Charles (GE Power & Water); Klapproth, James F (GE Power & Water); Curtis L Smith; Bolger, Francis T. (GE Power & Water); SARIKAYA, BARIS (Power & Water); chuck.behrend@exeloncorp.com;
(b)(6)
Subject: Borescope Probing Results of 1F-2 Inside the PCV

Dear all (attendees of the core analyses meeting on Oct. 4, 2011 at EPRI-DC, and others involved in this topic),

On January 19th, TEPCO examined the conditions inside the PCV of 1F-2 using a borescope and measured the temperature with thermocouples.

Summary of findings is posted in the following link.
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_120121_03-e.pdf

A 1-minute summary of video footage and a full 30-minute video footages can be seen and downloaded from the following link:
(Scroll down until you see links to "Investigation inside of Primary Containment Vessel, Unit 2, Fukushima Daiichi NPS" dated 2012.1.20)
http://www.tepco.co.jp/en/news/110311/

The full video is split into 4 parts and may take you several hours to download them all.
Due to large size of files, they will be deleted from the TEPCO server within a few days.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Esmaili, Hossein

From:	Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp>
Sent:	Wednesday, February 15, 2012 7:39 PM
To:	Peko, Damian; Pickering, Susan Y; St. Germain, Shawn; Smith, Curtis; Schwab, Patrick; Sauman, Ahsan; Robert, Curt; Robb, Kevin; Ott, Larry; Notafrancesco, Allen; Luangdilok, Wilson; Lee, Richard; Lee, Brian; Kushita, Kohei; Herring, Steve; Gabor, Jeff; Francis, Matthew; Esmaili, Hossein; Caledon, Margaret A; Kalinich, Donald A; yamachika-hidehiko@jnes-usa.org; Rahn, Frank; Yang, Rosa; Lewis, Stuart; Canavan, Ken; Maddox, James E. (INPO); Gard, Lee A (INPO); Nielsen, Rick M (INPO)
Cc:	Takizawa, Shin; Tagashira, Nobuyuki; Nakagawa, Yasushi; Kawano, Akira; watanabe.manabu1@tepco.co.jp; mizokami.shinya@tepco.co.jp; honda.takehsi@tepco.co.jp; yamanaka.yasunori@tepco.co.jp; Takafumi Anegawa; Miyata.Koichi@tepco.co.jp
Subject:	Follow-up from TEPCO: Fukushima Daiichi Initial Results Technical Exchange (1-25-2012)
Attachments:	Accident Situation at 1F Submitted from TEPCO to NISA_12222011.pdf; 1F-1 IC Specification (excerpt from establishment permit).pdf

Dear all (participants of MELCOR Technical Exchange Meeting on Jan. 25th in DC and others),
cc: TEPCO team,

Thanks to DOE/NRC/SNL/ORNL/INL for sharing information at the technical exchange meeting on Jan. 25th.

A few days ago, I had the opportunity to debrief the TEPCO safety group of the presentation materials from the Jan. 25th meeting. In general, they thought the assumptions made by SNL and ORNL for their MELCOR analyses were reasonable (to the extent I was able to explain to them in an hour).

However, there were areas that they sought clarification but I could not answer and also areas where their input would be useful for everyone involved to know.
Please find below some information that I was able to put together for everyone's benefit.

1. 1F-1 Drywell head bolts

Please find below answers to the question asked during the Jan. 25th meeting regarding the number and specifications of the drywell head bolts of 1F-1 (Thanks to Matthew at ORNL for the follow-up).
These are all public information from TEPCO's construction licensing document.

1. number of bolts: 96
2. specifications of the bolts: ASME SA 193-Gr B(7)
3. diameter of the bolts: 63.5 mm

2. 1F-1 IC Energy Removal Rate

One of my colleagues pointed out that the IC energy removal rate (42.2 MW total, 21.1 MW per train) indicated in the SNL presentation (slide title "1F1 Pressure Response during IC Operation") should be 42.2 MW per train.

To be exact, specification in the Establishment Permit of 1F-1 (please find attached an excerpt--in Japanese) says:
Heat Transfer Capacity (per tank): 36.2 * 10^6 kcal/h

3. Accident Situation at 1F-1, 2, 3 as of Dec. 22, 2011

Please find attached a tentative summary translation of a report submitted to NISA on Dec. 22, 2011 explaining the latest knowledge on accident situation at 1F Units 1, 2 and 3.

The original report in Japanese is in the following url:
http://www.tepco.co.jp/cc/press/betu11_j/images/111222n.pdf

TEPCO is preparing answers to the following questions sent to us from SNL, but we believe many of the answers can be found in the above report.

- The title of this report to use as a citation (TEPCO report issued on 12-22-2011 that has not yet been translated).
- Any information about the rated discharge pressure or flow rate for fire engine pumps (i.e., pump curves) used during the first week of the accident.
- Please identify the brand and type of SRV utilized by the plants. If Target Rock valves were employed, were they two-stage or three-stage?
- Any additional details relating to the manual operation of the isolation condenser in 1F1 on 3/11/11.
- The number and timing of manually opening of SRVs in 1F2 on 3/14/11.
- Any details related to the failure of RCIC operation in 1F2 on 3/14/11.
- In 1F2, what is the loss of power configuration of the RCIC system? The RCIC systems in the US are typically Terry turbines with Woodward controllers. The Woodard EG-M, following loss of power, moves the governor value via the actuator to the full open position this should cause RCIC to trip mechanically due to high speeds. This does not appear to have occurred for the RCIC system in 1F2. Is a different control box connected to the RCIC turbine? What configuration does the RCIC system assume when power is lost to the controller system? If the RCIC moves the governor to the "minimum" position what does that mean?
- In 1F3, did any HPCI flow from the CST ever make it to the wetwell (via minimum flow line)?
- In 1F3, did containment sprays really start at the exact same time that the HPCI started (21.8 hours)?
- In 1F3, at what time did the operators actually close the valve that allows flow through the minimum flow line (from CST to wetwell)?
- Is the July 29, 2011 email ("TEPCO Fukushima Information Update on July 29: New Finding of Plant Behavior of Unit 3 regarding HPCI Operation Status"; see attachment) now considered incorrect in light of new information? This email stated that the containment pressure decrease at 21 hours was due to HPCI minimum flow from the CST to the wetwell, since the HPCI started at the same time that containment pressure began to decrease.
- Details related to using fire engines to spray containment in 1F3.
- Details related to how operators controlled RCIC and HPCI in 1F2 and 1F3.

4. Request to INL Team to Register Relevant Info on the Portal

May I ask the INL team to register the above information to the INL Fukushima Information Portal?
Thanks in advance.

We look forward to continue exploring how all related parties can share thoughts and information in an efficient way (given the language barrier and time difference, among other hurdles.)

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 ~~(ext.)~~116
(b)(6)

Outside of Scope

Outside of Scope

Investigation of accident situation and progress at Fukushima Daiichi Nuclear Power Plant

Tokyo Electric Power Company

Objectives

On December 16, 2011, we received a directive document from Nuclear Industry Safety Agency (NISA) titled "Regarding the submission of factual information related to the investigation results of the accident situation at Fukushima Daiichi Nuclear Power Plant, Tokyo Electric Power Company (Direction)".

We submitted the report answering to this direction on December 22.

This slide provide contents of this report in English.

※We have disclosed information on the investigation result of the accident at Fukushima Daiichi Nuclear Power Plant since the occurrence of the accident. We have translated them into English one by one and published them on our web site when they were prepared.

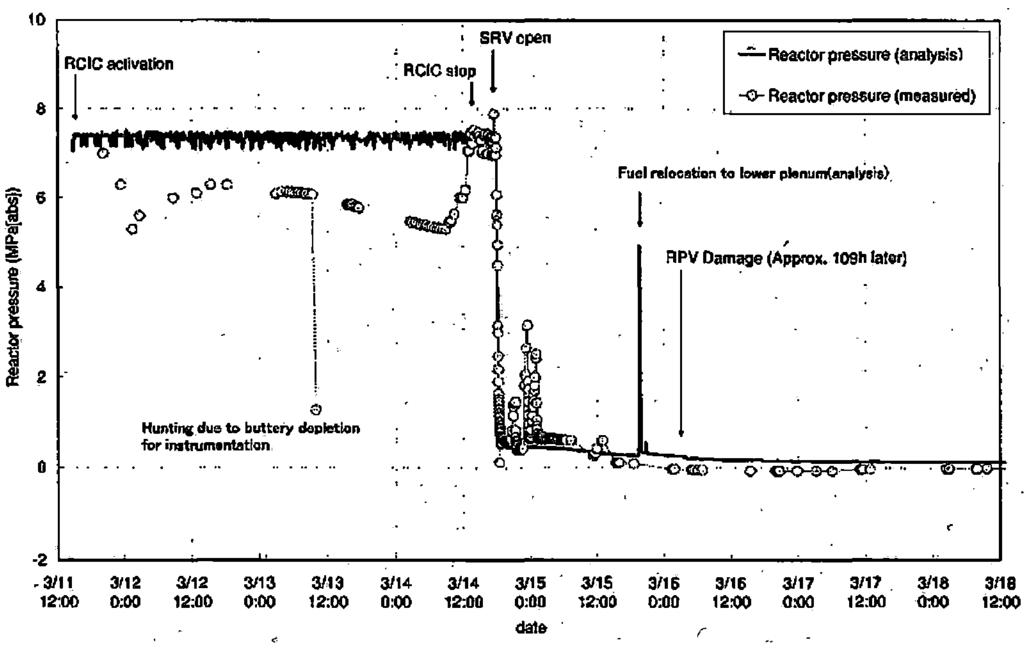
1. Reactor pressure in Unit2

Previous MAAP analysis (Input condition)

● Assumption of operating status

- RCIC in automatic operation on and off at rated power, keeping reactor water level at between L2 and L8.
- SRVs controlled reactor pressure.

Analysis Result



Analysis results did not agree with actual readings of RPV pressure during RCIC operation.

Possible causes

- Measured RPV pressure is not so high to activate SRVs.
- It is assumed that RCIC automatic operation did not work because of loss of instrumentation D/C power supply.

1. Reactor pressure in Unit2

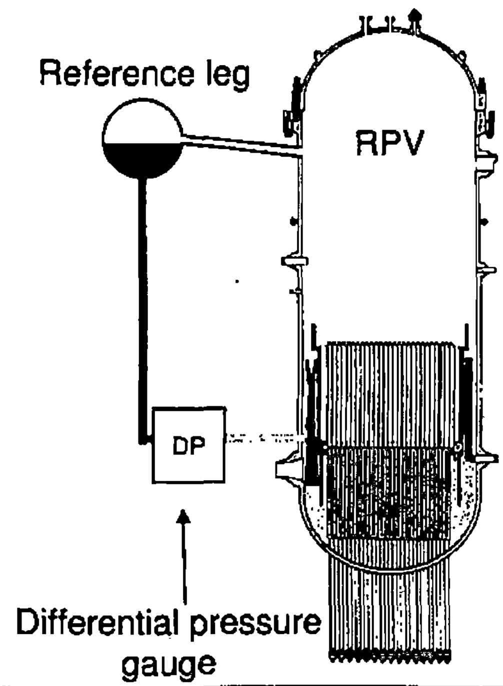
■Modification of MAAP analysis input

Correction of RPV water level gauge readings

Corrected RPV water level shows the height of reference leg connection (tap) constantly during RCIC operation.

It is assumed that RCIC did not suspend operation even after the RPV water level exceeded L-8 (automatic trip level) because of the loss of instrument D/C power supply.

Once actual RPV water level exceeds the height of the reference leg tap, level gauge shows the constant level because the differential pressure would stay the same.



Assumption of operating status

RPV water level remained above L-8

(and the height of the reference leg tap) during RCIC operation.

If the water level had reached to the height of MS line,

Two-phase flow might flow into the steam turbine of RCIC,

which could remove the decay heat without opening SRVs.

東京電力

1. Reactor pressure in Unit2

Present MAAP analysis

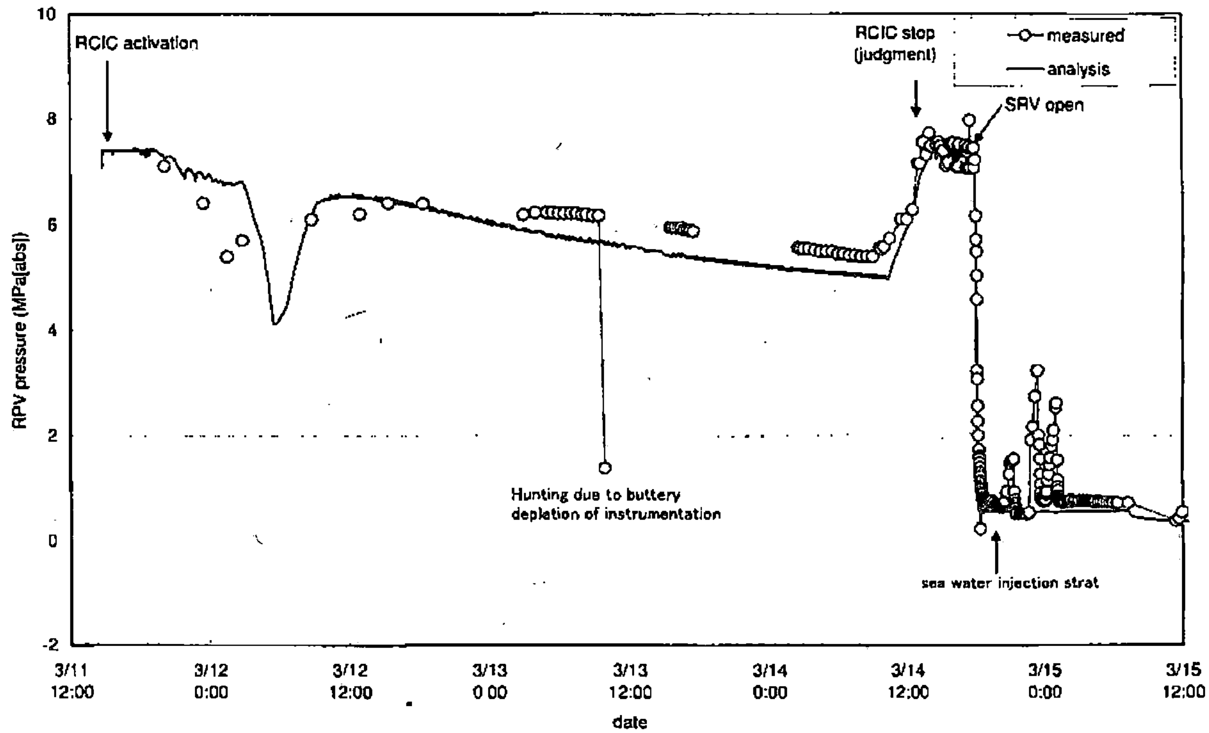
●Assumption of operating status

Vapor-liquid two-phase flow into the RCIC turbine.

Approx. 30% RCIC discharge rate.

Analysis result

Analysis result agree with actual readings of RPV pressure well.



東京電力

2. PCV pressure in Unit2

Previous MAAP analysis (Input conditions)

● Assumption of operating status

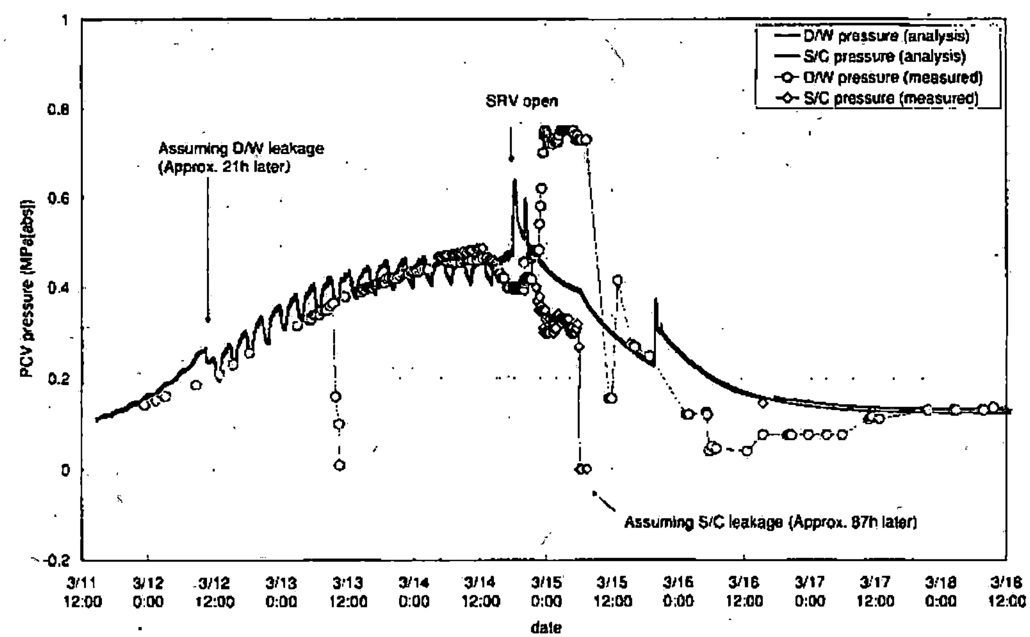
PCV leakage (D/W temperature > 138 degree-C)

※ Otherwise PCV pressure would increase more quickly during RCIC operation due to exhaust steam from RCIC turbine and steam from RPV through SRV to S/C (without sufficient cooling).

Analysis Result

Problem areas

- PCV temperature in MAAP analysis result is not high enough for PCV to leak.
- PCV leakage makes it hard to reproduce the pressure sharp rise and sustain high pressure level observed at March 14.



2. PCV pressure in Unit2

Alternatives for PCV leakage

- **Containment spray cooling from external water sources**

× No such operation record

- **Heat transfer to the outside of PCV via the surface of S/C**

If S/C had been submerged in water due to tsunami,

heat transfer might be large enough to mitigate rise in PCV pressure during RCIC operation.

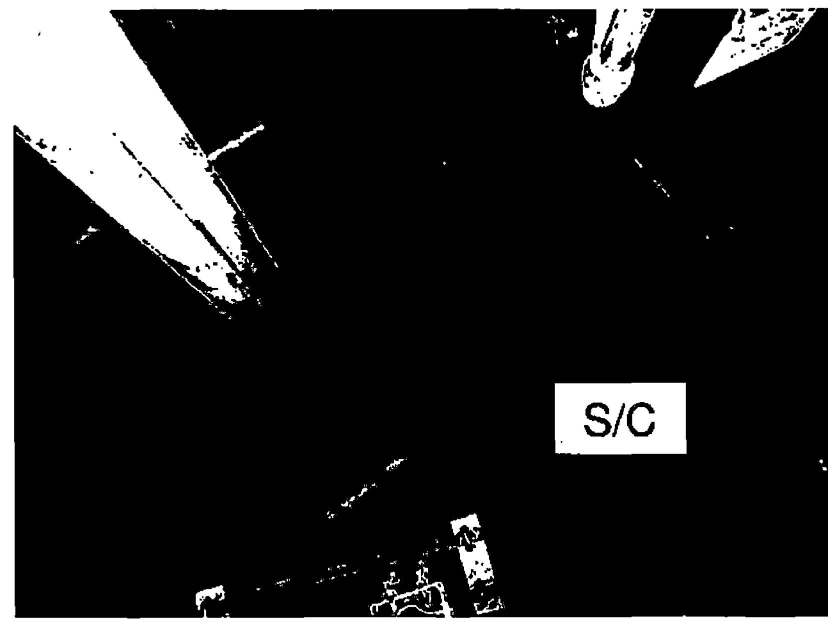
Submergence of S/C

- Submergence in the RCIC room and the turbine building was confirmed in the early stage.
- Judging from draining water level behavior in the buildings, draining water move through penetration between buildings.

➡ It is possible.

- Neither positive nor negative evidences exist.

➡ Further investigation is necessary.



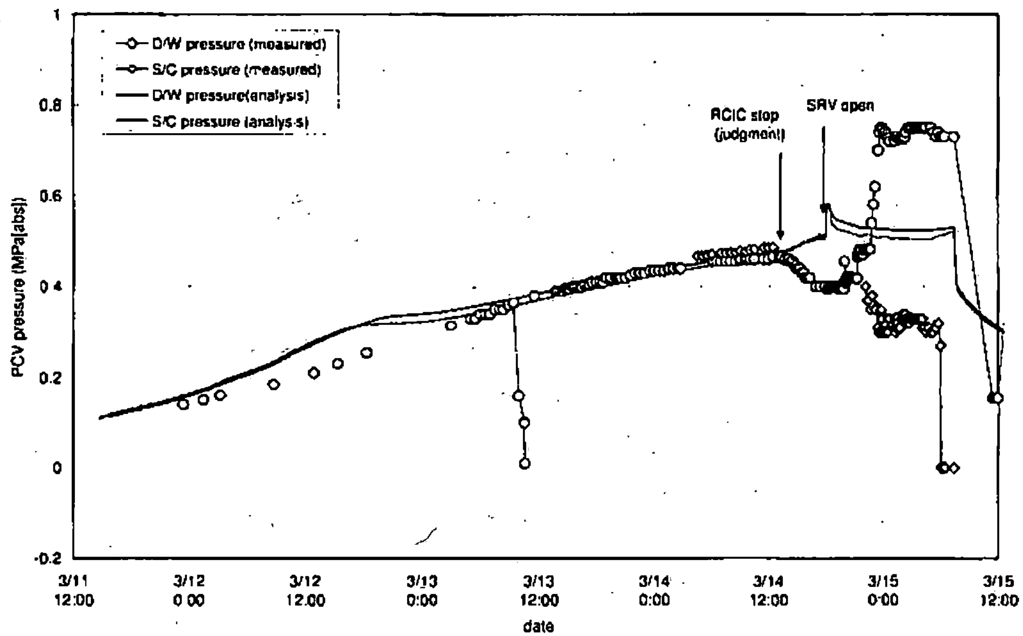
S/C in **unit4**, half-submerged in water

2. PCV pressure in Unit2

Present MAAP analysis (Input)

● **Assumption of operating status**

Gradual submergence of S/C in sea water (10℃) to the half-submerged state after arrival of the tsunami.



Analysis Results

The PCV pressure behavior during RCIC operation agrees with measured one.

Because there is no leakage from PCV, PCV pressure rise after core damage due to hydrogen and PCV pressure does not decrease until morning at March 15.

3. RPV pressure in Unit3

Previous MAAP analysis (Input condition)

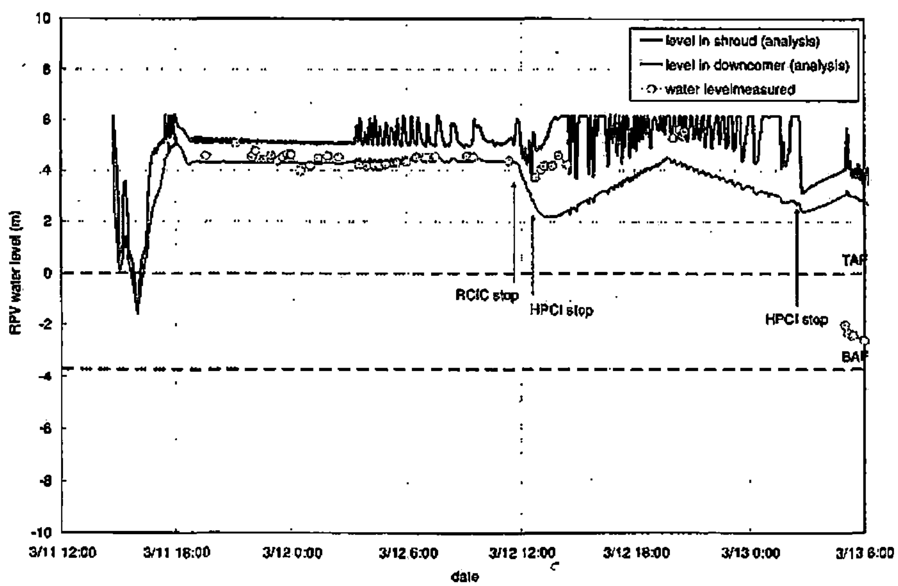
● Operation records

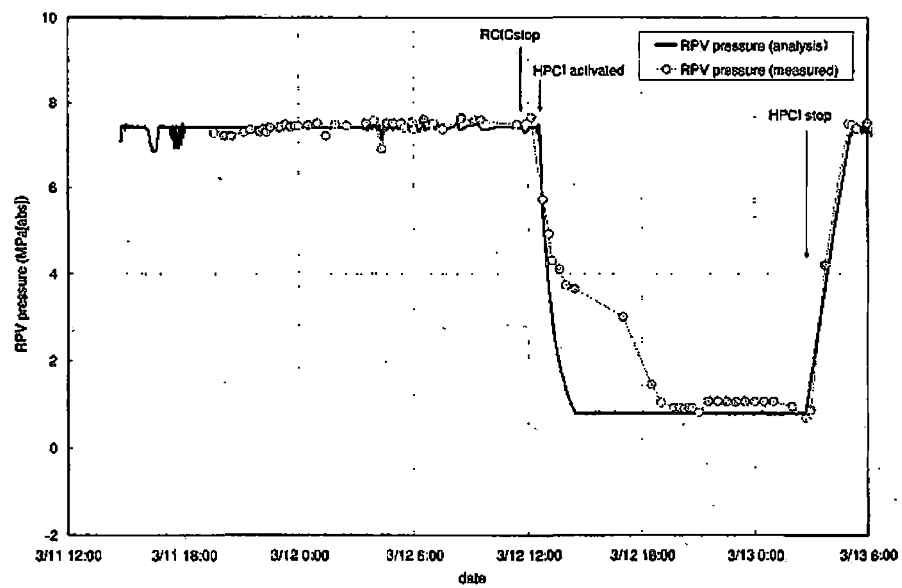
・RCIC and HPCI operated continuously and the flow rate was adjusted so that RPV water level did not reach trip setting level. **(Hot steam flow into S/C from RCIC and HPCI turbine)**

● Assumption of operating status

・Cold water in CST flowed into S/C through the minimum flow line during HPCI operation.

Analysis Result





3. RPV pressure in Unit3

<u>Present MAAP analysis (Input condition)</u>

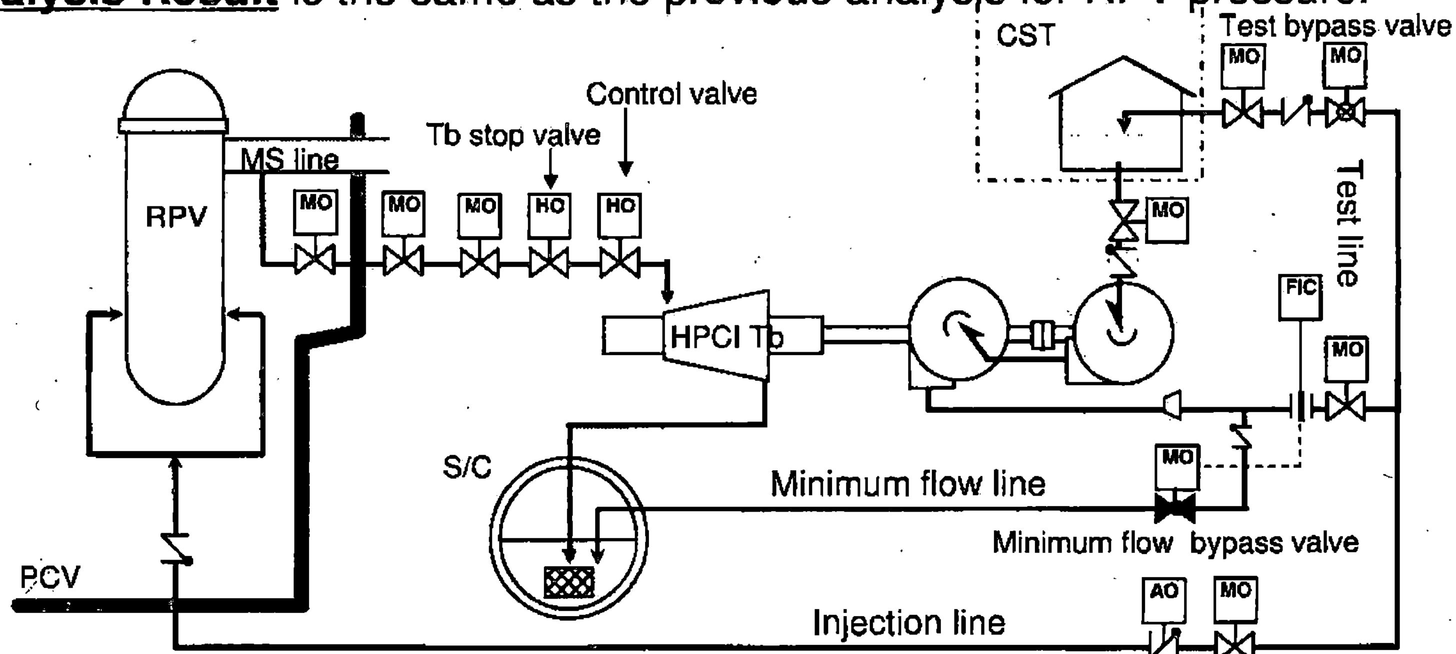
● **Operation record**

・HPCI operated continuously and flow rate was adjusted **<u>by using test line</u>** so that RPV water level did not reach trip setting level of RCIC. **(Hot steam flow into S/C from RCIC turbine)**

<u>・The minimum flow valve had been closed.</u>

<u>・PCV (both D/W and S/C) spray operated and cooled PCV instead.</u>

➡ **<u>Analysis Result</u>** is the same as the previous analysis for RPV pressure.



3. PCV pressure in Unit3

Previous MAAP analysis (Input condition)

(Repeat of the input description in the slide of PRV pressure in Unit3)

● **Operation records**

・HPCI operated continuously and flow rate was adjusted so that RPV water level did not reach trip setting level of RCIC. **(Hot steam flow into S/C from RCIC turbine)**

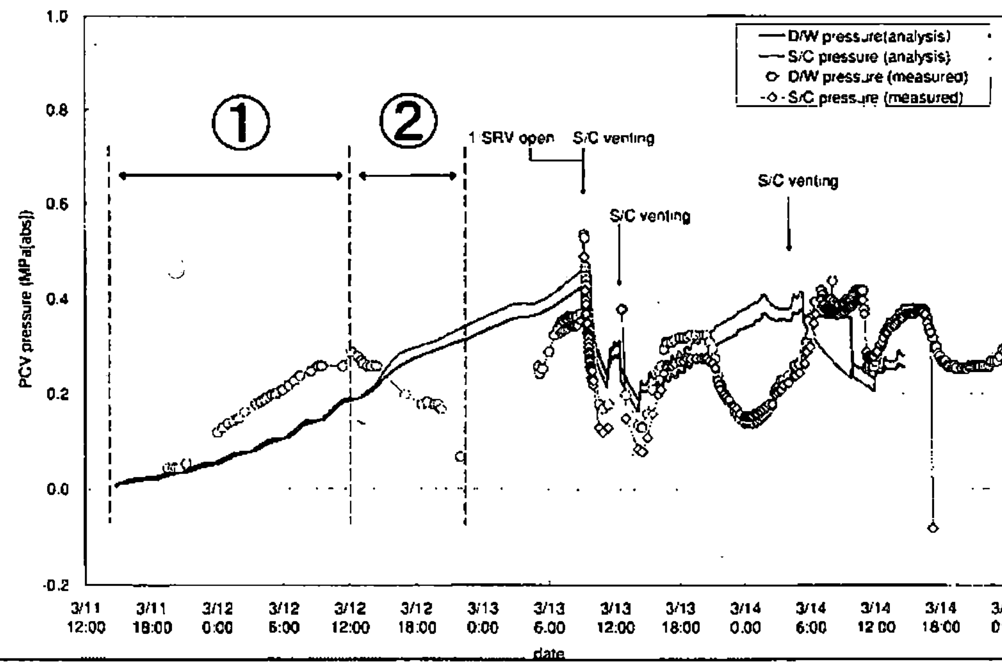
● **Assumption of operating status**

・Cold water in CST flowed into S/C through the minimum flow line. **(External cooling of S/C)**

Analysis Result

①The rate of pressure increase in the early stage is smaller than the measured one.

②The analysis result do not reproduce pressure drop starting from around the noon of March 12th.



3. PCV pressure in Unit3

Present MAAP analysis

●The behavior in plan design and Operation record

① In the case of external power loss, the CRD pump stop supplying seal water to mechanical seal of PLR pumps. As a result, high temperature RPV water leak into PCV.

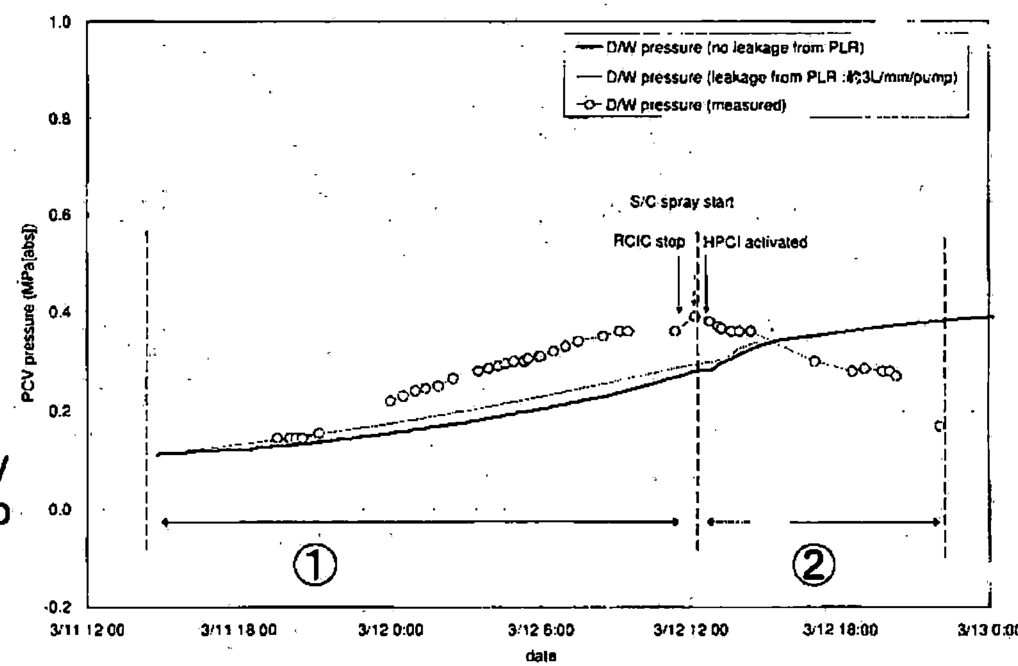
It could be one of the factors that make PCV pressure rise more during RCIC operation.

② PCV (both D/W and S/C) spray

Analysis Result

.①The assumption of leakage from PLR pump reproduced the pressure behavior only in the very early stage.

②PCV spray suppressed the pressure rise but could not reproduce pressure drop.



JNES pointed out that there is some possibility of degradation of suppressing efficiency due to thermal stratification.
http://www.nisa.meti.go.jp/shingikai/800/28/007/7-3.pdf
(in Japanese)

東京電力

Reference information

Chronology of PCV spray in Unit3

Date	Events
3/11 12:06	S/C spray with DDFP start
3/12 3:05	S/C spray with DDFP stop
5:08	S/C spray with DDFP start
7:39	D/W spray with DDFP start (both D/W and S/C spray in operation)
7:43	S/C spray with DDFP stop
8:40 ~9:10	D/W spray with DDFP stop

Page 1870 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1871 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1872 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1873 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1874 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1875 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1876 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1877 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1878 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1879 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1880 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1881 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1882 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1883 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1884 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1885 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1886 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1887 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1888 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1889 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1890 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1891 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1892 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1893 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1894 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1895 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1896 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1897 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1898 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1899 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Tuesday, July 24, 2012 4:26 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Please respond if interested

Dear Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Thank you for your continued support to TEPCO in various aspects of Fukushima accident response and restoration.

I would like to invite you to join a weekly conference call where I will provide you with an update of the current situation at Fukushima.
My plan is to walk you through latest and important press releases from TEPCO and answer any questions that you may have to the best of my knowledge.

The call will be on every Thursdays from 3 pm eastern time, with an expected duration of about 30 minutes.
There may be times that I will have to ask for changes in schedule due to business trips, etc. and the duration can vary depending on how things unfold at Fukushima during the previous week.

Please reply to this email if you (or your colleagues) would like to be included in a distribution list for future notifications of this call.
(No need to commit to participate in every call; please join the call whenever you have the time and interest in the topic.)

See below for details for this week's call.

(b)(6) **[Date/time]**
Thu, July 26 at 3 pm EDT

[call-in information]
~~call number: 718-354-1184~~
[redacted]
(~~The automated system~~ will speak Japanese from time to time but don't worry; it is just saying "*a new participant has joined.*")

[Major topics]
1. Implementation Plan on Reliability Improvement Measures at Fukushima Daiichi (July 24)
(only in Japanese; 300 pages)
http://www.tepco.co.jp/en/press/corp-com/release/2012/1206826_1870.html

2. TEPCO presentations at a METI-hosted Technical Workshop on Fukushima accident
a. Overall status of Fukushima Daiichi (July 23)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_04-j.pdf

b. R&D plan towards decommissioning of Units 1-4 (July 23)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_05-j.pdf

c. Status of preparation to remove fuels from Units 1-4 spent fuel pools (July 23)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_07-j.pdf

d. Accident progression analysis of Units 1-3 using MAAP code (July 23)
(partially in English)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_02-j.pdf

e. Estimation of radioactivity released from Fukushima Daiichi (July 23)
(English)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_03-j.pdf

f. Hydrogen, Xenon, Krypton sampling trend from containment vessel (July 23)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_06-j.pdf

g. Seismic ground motion observed and simulated (July 24)
(English)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_02-j.pdf

h. Tsunami survey results and reproduction analysis (July 24)
(English)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_03-j.pdf

i. Earthquake-induced damage (lack of) to Units 1-3 (July 24)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_04-j.pdf

j. Inner-containment investigation and identification of its leak path (July 24)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_05-j.pdf

k. Various approaches to grasp plant status (July 24)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_06-j.pdf

l. Cause of Unit 4 reactor building explosion (July 24)
(English)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_07-j.pdf

m. Unit 4 spent fuel pool integrity (July 24)
(English)
http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120724_08-j.pdf

(Agenda for Technical Workshop on July 23) Only in Japanese
http://www.nisa.meti.go.jp/shingikai/700/14/240723/240723.html

(Agenda for Technical Workshop on July 24) Only in Japanese
http://www.nisa.meti.go.jp/shingikai/700/14/240724/240724.html

Please let me know if there are any other specific topics that you would like me to cover.

[TEPCO Public Information in English]
Press Releases

http://www.tepco.co.jp/en/press/corp-com/release/index-e.html

Photos and Video Footages
http://photo.tepco.co.jp/en/index-e.html

Press Conference Handouts
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/index-e.html

Rebuttals against Media Misinformation and Rumors
http://www.tepco.co.jp/en/nu/fukushima-np/info/index-e.html

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Page 1903 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1904 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1905 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1906 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Monday, August 20, 2012 11:41 AM
To: Norton, Charles
Cc: Yamaguchi, Akinori; Takizawa, Shin; Shinoda, Kazuyuki; Nakagawa, Yasushi; Kawano, Akira; Marksberry, Don; Lee, Richard; Helton, Donald; Mitchell, Matthew; Reckley, William; Foggie, Kirk; Jimenez, Manuel
Subject: Re: SFP questions

Chuck,

Thank you for your inquiry.
Please find below answers.

Question 1. a.

Page 14 of the presentation says the following:
(top left photo) 1. upper part of inside SFP--rubbles
(top right photo) 2. inside SFP: top arrow indicates upper part of fuel; bottom arrow indicates fuel rack
(bottom left photo) 3. inside SFP (photo taken from inside the cask pit): arrow indicates fuel handling machine
(bottom right photo) 4. inside SFP: arrow indicates fuel handling machine

Question 1. b.

Page 16 of the presentation says the following (call-outs in the bottom left photo):
(top center call-out) rebars
(top right call-out) deck plates
(center left call-out) roof truss
(bottom right call-out) SFP

Question 2.

I am not aware of any reports that specifically focused on hydrogen burn surveys.

However, in our Final Internal Investigation Committee Report (only the summary has been translated into English), there is a section in pages 261-266 of the main body that describes studies conducted to estimate the cause of Unit 4 reactor building explosion.
http://www.tepco.co.jp/en/press/corp-com/release/2012/1205638_1870.html

Photos in pages 265 and 266 show visual inspection results inside the Unit 4 reactor building (on 5th, 4th and 3rd floors.)
The study focused on direction of pressure waves and not necessarily burn.

Please let me know if you have further questions.

All the best,

Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Norton, Charles
To: Tateiwa, Kenji
Cc: Marksberry, Don ; Lee, Richard ; Helton, Donald ; Mitchell, Matthew ; Reckley, William ; Foggie, Kirk ; Jimenez, Manuel
Sent: Monday, August 20, 2012 10:31 AM
Subject: SFP questions

Kenji,

NRC Research has questions related to spent fuel pools. These questions come from the update you provided on July 23, 2012.

(We understand that TEPCO has yet to conduct visual investigations and surveys of the damage to Unit 1 due to debris covering the refueling deck. So our request for the information focuses on Units 3 and 4.)

1. On page 14 of the slide presentation "Status of preparation to remove fuels from Units 1-4 spent fuel pools, " July 23, 2012 (http://www.tepco.co.jp/nu/fukushima-np/images/handouts_120723_07-j.pdf)

    a. Were parts of the fuel transfer bridge/platform found in the Unit 3 spent fuel pool?
    b. What other debris can be seen in the Unit 3 spent fuel pool?

2. Are there any reports on the visual effects of hydrogen-burn damage on parts of building structures (and pieces) in Units 3 and 4?

(Note: We are looking for information similar to hydrogen burn surveys that were conducted inside TMI-2 reactor containment building. Examples of visual observation are included in GEND-INF-023-VOL-1, INVESTIGATION OF HYDROGEN-BURN DAMAGE IN THE TMI-2 REACTOR BUILDING, http://kerepos.inl.gov/TMI/GEND-INF-023-VOL-1.pdf#search=GEND-INF-023).

Once again thank you for providing information. We at US NRC appreciate your openness.

Chuck Norton
JLD/PSB
301 415 7818

Page 1909 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1910 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1911 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1912 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1913 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1914 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 1915 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, October 11, 2012 9:25 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 12 at 3pm EDT

Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 12 at 3 pm EDT
(Next call will be on Fri, Oct. 19 at 3 pm EDT)

[call-in information](Please record your name and company name when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Report on Steel Beam Dropped Into Unit 3 SFP (Oct. 3)
http://www.tepco.co.jp/en/press/corp-com/release/2012/1221393_1870.html

(photos and video footages)
http://photo.tepco.co.jp/en/date/2012/201210-e/121003-01e.html

2. First In-depth Probing Inside Unit 1 Primary Containment Vessel (Oct. 9-10)
1-a. Insertion of a Pan-tilt Camera Through a Penetration (Oct. 9)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121009_01-e.pdf

1-b. Measurement Results of Water Level and Dose Rate Inside the PCV (Oct. 10)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121010_01-e.pdf

1-c. Images Inside the PCV Taken on Oct. 9
Photos
http://photo.tepco.co.jp/en/date/2012/201210-e/121010-01e.html

Video footage (redacted)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=239198706002&bctid=299648779002

Video footage (complete)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=239198706002&bctid=299648779002

1-d. Images Inside the PCV Taken on Oct. 10
Photos
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121011_01-e.pdf

Video footage (redacted)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=300487684002

Video footage (complete)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=300487682002

3. Video Footages of TEPCO's Video Conference Among Multiple Emergency Response Centers During the First 5 Days of the Accident
http://photo.tepco.co.jp/en/date/2012/201210-e/121005-01e.html

4. English Translation Completed for Final Report of the TEPCO Internal Investigation Committee (500 pages)
http://www.tepco.co.jp/en/press/corp-com/release/betu12_e/images/120620e0104.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 27, 2012 12:17 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 28 at 3pm EDT

Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 28 at 3 pm EDT
(**No call next week (Oct. 5)** due to conflict in my schedule. Next call will be on **Fri, Oct. 12** at 3 pm EDT)

[call-in information](Please record your name and company name when joining the call.)
call number: 718-354-1184
(b)(6) 25057200#

[Major topics]
1. Investigatin of steel beams dropped in Unit 3 SFP (Sept. 26)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_120926_01-e.pdf

(video footages)
http://photo.tepco.co.jp/en/date/2012/201209-e/120926-01e.html

2. First look inside Unit 1 PCV (Sept. 27)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_120927_02-e.pdf

(video footages)
http://photo.tepco.co.jp/en/date/2012/201209-e/120927-01e.html

3. Gov't-TEPCO Joint Meeting on Mid-to-Long Term Actions (Sept. 24)
(Only in Japanese)

3-a. Plant parameter
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01d.pdf

3-b. Storage status of accumulated water
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01e.pdf

3-c. Mock-up tests for Unit 2 RPV alternative thermometer installation
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01g.pdf

3-d. Purging residual gas (H2, Kr-85) from Unit 1 S/C by nitrogen gas
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01h.pdf

3-e. Unit 1 PCV internal investigation
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01j.pdf

3-f. Multi-nuclide removal system (ALPS) installation status
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01m.pdf

3-g. Ground water bypass system installation status
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01n.pdf

3-h. Additional water tanks installation plan
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01p.pdf

3-i. Estimate of additional release of radioactivity from reactor buildings
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01s.pdf

3-j. Status for removal of rubbles from Unit 3 reactor building
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01x.pdf

3-k. Status for removal of rubbles from Unit 4 reactor building
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01y.pdf

3-l. Unit 4 fresh fuel investigation results
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01z.pdf

3-m. Water chemistry control in common SFP
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01bb.pdf

3-n. Unit 1 reactor building accumulated water survery results
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01ee.pdf

3-o. Radionuclides analyses results of contaminated water
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01jj.pdf

3-p. Status of Mid-to-long-term Roadmap towards decommissioning
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_01kk.pdf

4. Gov't-TEPCO Joint Meeting on Mid-to-Long Term R&D (Sept. 24)
(Only in Japanese)

4-a. Study on core debris characteristics and development of core debris handling technology
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_02c.pdf

4-b. Development status of Remote Technology Task Force
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_02d.pdf

4-c. Unmanned disaster response system by NEDO (New Energy and Industrial Technology Development Organization)
http://www.meti.go.jp/earthquake/nuclear/pdf/120924/120924_02e.pdf

[TEPCO Public Information in English]
Press Releases
http://www.tepco.co.jp/en/press/corp-com/release/index-e.html

Photos and Video Footages
http://photo.tepco.co.jp/en/index-e.html

Press Conference Handouts
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/index-e.html

Rebuttals against Media Misinformation and Rumors
http://www.tepco.co.jp/en/nu/fukushima-np/info/index-e.html

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, October 18, 2012 6:12 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 19 at 3pm EDT

Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 19 at 3 pm EDT
(No call next week. Next call will be on Fri, Nov. 2 at 3 pm EDT)

[call-in information](Please record your name and company name when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Installation of Permanent Instrumentation Inside Unit 1 PCV (Oct. 13)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_05-e.pdf
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_04-e.pdf

2. Investigation Results of Inside Unit 3 SFP (Oct. 11-12)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_01-e.pdf

3. Assumed Location of Fuel Handling Machine Dropped Inside Unit 3 SFP (Oct. 11-12)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_03-e.pdf

4. Completion of Unit 4 SFP Water Desalination (Oct. 12)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_05-e.pdf

5. Video Footages of TEPCO's Video Conference Among Multiple Emergency Response Centers During the First 5 Days of the Accident
http://photo.tepco.co.jp/en/date/2012/201210-e/121005-01e.html

To give you a flavor of what is going on in the video, I will walk you through some of the select footages.
Please download the following files prior to the call:

5-a. file 7-1 (March 13 at 8:28 am; duration: 3 minutes 19 seconds)
Concern for cooling SFPs; procuring ice; access to Unit 3 refueling floor challenging.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv030.zip

5-b. file 12-2 (March 13 at 1:10 pm; duration: 59 seconds)
Unit 3 enters into critical condition; concern of another explosion.

http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv052.zip

5-c. file 14-2 (March 13 at 3:18 pm; duration: 32 seconds)
H/Q consults with fire experts on explosion prevention measures.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv063.zip

5-d. file 34-1 (March 14 at 8:17 am; duration: 3 minutes 44 seconds)
Unit 3 PCV pressure shows abnormal increase; TEPCO struggles coordinating with authorities to notify public.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv112.zip

5-e. file 46-1 (March 14 at 6:47 pm; duration: 2 minutes 12 seconds)
Unit 2 in critical condition; calling out plant parameter; Mr. Yoshida preoccupied by call from PM's office
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv142.zip

5-f. file 49-1 (March 14 at 9:32 pm; duration: 3 minutes 21 seconds)
Daini requests 4,000 ton of fresh water; NISA demands plant parameter; fuel transportation to Daiichi.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv155.zip

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, October 12, 2012 9:03 AM
Subject: Update [TEPCO Weekly Fukushima Update Call] Fri, Oct. 12 at 3pm EDT

Please find below updated list of topics.

> ----- Original Message -----
> **From:** Tateiwa, Kenji
> **To:** Tateiwa, Kenji
> **Sent:** Thursday, October 11, 2012 9:24 PM
> **Subject:** [TEPCO Weekly Fukushima Update Call] Fri, Oct. 12 at 3pm EDT
>
> Colleagues of nuclear-related U.S. Government agencies and National Laboratories,
>
> Please find below information for tomorrow's Weekly Fukushima Update Call.
>
> **[Date/time]**
> Fri, Oct. 12 at 3 pm EDT
> (Next call will be on Fri, Oct. 19 at 3 pm EDT)
>
> **[call-in information]**(Please record your name and company name when joining the call.)
> call number: 718-354-1184
> (b)(6)
>
> **[Major topics]**
> **1. Investigation Report on Steel Beam Dropped Into Unit 3 SFP (Oct. 3)**
> http://www.tepco.co.jp/en/press/corp-com/release/2012/1221393_1870.html
>
> (photos and video footages)

http://photo.tepco.co.jp/en/date/2012/201210-e/121003-01e.html

2. First In-depth Probing Inside Unit 1 Primary Containment Vessel (Oct. 9-10)
2-a. Insertion of a Pan-tilt Camera Through a Penetration (Oct. 9)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121009_01-e.pdf

2-b. Measurement Results of Water Level and Dose Rate Inside the PCV (Oct. 10)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121010_01-e.pdf

2-c. Sampling Results of Accumulated Water Inside the PCV (Oct. 11)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_03-e.pdf
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_02-e.pdf

2-d. Images Inside the PCV Taken on Oct. 9
Photos
http://photo.tepco.co.jp/en/date/2012/201210-e/121010-01e.html

Video footage (redacted)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=239198706002&bctid=299648779002

Video footage (complete)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=239198706002&bctid=299648779002

2-e. Images Inside the PCV Taken on Oct. 10
Photos
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121011_01-e.pdf

Video footage (redacted)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=300487684002

Video footage (complete)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=300487682002

2-f. Images Inside the PCV Taken on Oct. 11
Photos
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_04-e.pdf

Video footage (redacted)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=301373943002

Video footage (complete)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=301373941002

3. 1st Nuclear Reform Monitoring Committee Meeting (Oct. 12)
http://www.tepco.co.jp/en/press/corp-com/release/betu12_e/images/121012e0101.pdf

4. Video Footages of TEPCO's Video Conference Among Multiple Emergency Response Centers During the First 5 Days of the Accident
http://photo.tepco.co.jp/en/date/2012/201210-e/121005-01e.html

5. English Translation Completed for Final Report of the TEPCO Internal Investigation Committee (500 pages)
http://www.tepco.co.jp/en/press/corp-com/release/betu12_e/images/120620e0104.pdf

All the best,

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, November 01, 2012 9:58 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 2 at 3pm EDT

Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 2 at 3 pm EDT
(Next call will be on Fri, Nov. 9 at 3 pm EST)

[call-in information](Please record your name and company name when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Successful Observation of Unit 1 Reactor Building Refueling Floor Using a Balloon (Oct. 24)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121024_02-e.pdf

(video footage)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=312171427002

2. 11th Gov't-TEPCO Joint Meeting on Mid-to-Long Term Actions (Oct. 22)
(Only in Japanese)

2-a. Plant parameter
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01d.pdf

2-b. Storage status of accumulated water
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01e.pdf

2-c. Unit 2 RPV Alternative Thermometer Installation
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01g.pdf

2-d. Unit 1 PCV internal investigation
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01h.pdf

2-e. Unit 1 S/C Nitrogen Gas Injection
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01j.pdf

2-f. Unit 4 SFP Desalination Completed
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01k.pdf

2-g. Multi-nuclide removal system (ALPS) preparation fo hot test
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01n.pdf

2-h. Mid-to-long-term plan for on-site decontamination
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01q.pdf

2-i. Status of removal of rubbles from Unit 3 reactor building
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01v.pdf

2-j. Unit 3 SFP underwater inspection
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01y.pdf

2-k. Status of removal of rubbles from Unit 4 reactor building
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01w.pdf

2-l. SFP work schedule
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01u.pdf

2-m. Fuel debris removal work schedule
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01z.pdf

2-n. Status of Mid-to-long-term Roadmap towards decommissioning
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_01ee.pdf

3. 10th Gov't-TEPCO Joint Meeting on Mid-to-Long Term R&D (Oct. 22)
(Only in Japanese)

3-a. Improvement of accident progression analysis technology
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_02d.pdf

3-b. Development status of radioactive waste processing and disposal technology
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_02e.pdf

3-c. Accounting for and control of fuel debris
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_02f.pdf

3-d. Criticality control of fuel debris
http://www.meti.go.jp/earthquake/nuclear/pdf/121022/121022_02g.pdf

[TEPCO Public Information in English]
Press Releases
http://www.tepco.co.jp/en/press/corp-com/release/index-e.html

Photos and Video Footages
http://photo.tepco.co.jp/en/index-e.html

Press Conference Handouts
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/index-e.html

Rebuttals against Media Misinformation and Rumors
http://www.tepco.co.jp/en/nu/fukushima-np/info/index-e.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 18, 2012 6:11 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 19 at 3pm EDT

Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 19 at 3 pm EDT
(No call next week. Next call will be on Fri, Nov. 2 at 3 pm EDT)

[call-in information](Please record your name and company name when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Installation of Permanent Instrumentation Inside Unit 1 PCV (Oct. 13)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_05-e.pdf
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_04-e.pdf

2. Investigation Results of Inside Unit 3 SFP (Oct. 11-12)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_01-e.pdf

3. Assumed Location of Fuel Handling Machine Dropped Inside Unit 3 SFP (Oct. 11-12)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121015_03-e.pdf

4. Completion of Unit 4 SFP Water Desalination (Oct. 12)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_05-e.pdf

5. Video Footages of TEPCO's Video Conference Among Multiple Emergency Response Centers During the First 5 Days of the Accident
http://photo.tepco.co.jp/en/date/2012/201210-e/121005-01e.html

To give you a flavor of what is going on in the video, I will walk you through some of the select footages.
Please download the following files prior to the call:

5-a. file 7-1 (March 13 at 8:28 am; duration: 3 minutes 19 seconds)
Concern for cooling SFPs; procuring ice; access to Unit 3 refueling floor challenging.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv030.zip

5-b. file 12-2 (March 13 at 1:10 pm; duration: 59 seconds)
Unit 3 enters into critical condition; concern of another explosion.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv052.zip

5-c. file 14-2 (March 13 at 3:18 pm; duration: 32 seconds)
H/Q consults with fire experts on explosion prevention measures.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv063.zip

5-d. file 34-1 (March 14 at 8:17 am; duration: 3 minutes 44 seconds)
Unit 3 PCV pressure shows abnormal increase; TEPCO struggles coordinating with authorities to notify public.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv112.zip

5-e. file 46-1 (March 14 at 6:47 pm; duration: 2 minutes 12 seconds)
Unit 2 in critical condition; calling out plant parameter; Mr. Yoshida preoccupied by call from PM's office
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv142.zip

5-f. file 49-1 (March 14 at 9:32 pm; duration: 3 minutes 21 seconds)
Daini requests 4,000 ton of fresh water; NISA demands plant parameter; fuel transportation to Daiichi.
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/tv155.zip

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, October 12, 2012 9:03 AM
Subject: Update [TEPCO Weekly Fukushima Update Call] Fri, Oct. 12 at 3pm EDT

Please find below updated list of topics.

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 11, 2012 9:24 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 12 at 3pm EDT

Colleagues of nuclear-related U.S. Government agencies and National Laboratories,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 12 at 3 pm EDT
(Next call will be on Fri, Oct. 19 at 3 pm EDT)

[call-in information](Please record your name and company name when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Report on Steel Beam Dropped Into Unit 3 SFP (Oct. 3)
http://www.tepco.co.jp/en/press/corp-com/release/2012/1221393_1870.html

(photos and video footages)
http://photo.tepco.co.jp/en/date/2012/201210-e/121003-01e.html

2. First In-depth Probing Inside Unit 1 Primary Containment Vessel (Oct. 9-10)
2-a. Insertion of a Pan-tilt Camera Through a Penetration (Oct. 9)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121009_01-e.pdf

2-b. Measurement Results of Water Level and Dose Rate Inside the PCV (Oct. 10)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121010_01-e.pdf

2-c. Sampling Results of Accumulated Water Inside the PCV (Oct. 11)
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_03-e.pdf
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_02-e.pdf

2-d. Images Inside the PCV Taken on Oct. 9
Photos

http://photo.tepco.co.jp/en/date/2012/201210-e/121010-01e.html

Video footage (redacted)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=239198706002&bctid=299648779002

Video footage (complete)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=239198706002&bctid=299648779002

2-e. Images Inside the PCV Taken on Oct. 10
Photos
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121011_01-e.pdf

Video footage (redacted)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=300487684002

Video footage (complete)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=300487682002

2-f. Images Inside the PCV Taken on Oct. 11
Photos
http://www.tepco.co.jp/en/nu/fukushima-np/images/handouts_121012_04-e.pdf

Video footage (redacted)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=301373943002

Video footage (complete)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=239199917002&bctid=301373941002

3. 1st Nuclear Reform Monitoring Committee Meeting (Oct. 12)
http://www.tepco.co.jp/en/press/corp-com/release/betu12_e/images/121012e0101.pdf

4. Video Footages of TEPCO's Video Conference Among Multiple Emergency Response Centers During the First 5 Days of the Accident
http://photo.tepco.co.jp/en/date/2012/201210-e/121005-01e.html

5. English Translation Completed for Final Report of the TEPCO Internal Investigation Committee (500 pages)
http://www.tepco.co.jp/en/press/corp-com/release/betu12_e/images/120620e0104.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, May 31, 2012 6:11 PM
To: Lee, Richard
Subject: Estimation of radioactivity release from Fukushima Daiichi

Richard,

Thank you for your email. It was nice seeing you, too.

I checked the original report (only in Japanese) of estimation of radioactivity release, but could not find the number 160,000 terabecquerel quoted in the article.
http://www.tepco.co.jp/cc/press/betu12_j/images/120524j0105.pdf

In page 14 (the page number indicated in the bottom) of our report you will find 2 tables.
The second table describes the estimated release from Unit 2 (direct release from the building, not venting) on March 15th as follows:

Noble gas: 100 PBq
I-131: 100 PBq
Cs-134: 2 PBq
Cs-137: 2 PBq

As for your second question, I do not think we calculated the contamination area solely due to the March 15th release from Unit 2.
The bottom figure in page 45 of our report compares the actual Cs-137 deposition study results conducted by MEXT and the calculation results using the code DIANA in our study.

For example, red denotes area where actual deposition of Cs-137 is greater than 3,000 kBq/m^2.
Thick black contour denotes calculated deposition of Cs-137 is 3,000 kBq/mm^2.
The direction of dispersion being north-west is in agreement, but quantitatively, there is quite a bit of disparity.

Hope this helps.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Lee, Richard

To: tateiwa.kenji@tepco.co.jp
Sent: Thursday, May 31, 2012 4:08 PM
Subject: A request for information

Hi, Kenji:

It was nice meeting you again at the EPRI meeting, and at NRC Fukushima Steering Committee meeting.

Recently in the news, the following was quoted.

"***TEPCO Says No. 2 Reactor Was The Main Source Of Radiation In The Area.*** The Yomiuri Shimbun (Japan) (5/26, 13.8M) reported, "Tokyo Electric Power Co. has revealed that the damaged containment vessel of the No. 2 reactor at its Fukushima No. 1 nuclear power plant was the main source of radiation contamination in litate and neighboring areas in northeastern Fukushima Prefecture." TEPCO said Thursday that the "damaged No. 2 reactor's containment vessel released an estimated 160,000 terabecquerels of radioactive substances on March 15, causing the soil in litate and surrounding areas to become heavily contaminated. One terabecquerel is equal to 1 trillion becquerels."

Please let us know –

(a) How much of 160,000 terraBq was Cs-137?
(b) How many square kilometers of land was contaminated with that amount of Cs?

Look forward to hearing from you.

Best regards,
Richard

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, March 07, 2013 9:47 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, March 8 at 3pm EST

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for this tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri. March 8, 2013 at 3 pm EST
(No call next week. Next call will be on Fri, March 22 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6) 25057200#

[Major topics]
1. Discussion on Tritium at Fukushima Daiichi (2/28/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130228_04-e.pdf

2. Unit 2 TIP Guide Tube Inspection Results (3/1/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130301_03-e.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2013/201303-e/130301-01e.html

3. Unit 2 PCV Internal Investigation and Installation of Permanent Instrumentation (3/1/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130301_02-e.pdf

4-1. Unit 2 Vent Pipe Investigation Results (3/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130305_01-e.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2013/201303-e/130305-01e.html

4-2. Unit 2 Vent Pipe Investigation Results (cont'd) (3/6/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130306_03-e.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2013/201303-e/130306-03e.html

5. First Meeting of Gov't-TEPCO-Industry Council on Promotion of Fukushima Daiichi Decommissioning (3/7/2013)
5-1. Agenda and Discussion
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130307_01-j.pdf

5-2. Progress Status towards Decommissioning

(only in Japanese: 12 MB, 246 pages)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130307_01-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, February 27, 2013 7:27 AM
Subject: TODAY/Update [TEPCO Weekly Fukushima Update Call] WED, Feb. 27 at 3pm EST

Please find below updated agenda for today's conference call (topic 2-2 was added).

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Monday, February 25, 2013 8:57 PM
Subject: [TEPCO Weekly Fukushima Update Call] WED, Feb. 27 at 3pm EST

(NOTE: Schedule changed from Fri, March 1 to Wed. Feb. 27. Apologies for the short notice.)
Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for this week's Weekly Fukushima Update Call.

[Date/time]
Wed, Feb. 27, 2013 at 3 pm EST
(Next call will be on Fri, March 8 at 3 pm EST)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building Structural Integrity: 4th Inspection Results (Feb. 13, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130213_02-e.pdf

2-1. Unit 1 SFP Sloshing May Have Caused Water Leakage on 4th Floor of Reactor Building (Feb. 18, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130218_02-e.pdf

2-2. Video Clip of Unit 1 Reactor Building 4th Floor Investigation Conducted on Nov. 30, 2012 (Feb. 15, 2013)
http://photo.tepco.co.jp/en/date/2013/201302-e/130215-01e.html

3. Unit 3 SFP Underwater Investigation Results (Feb. 21, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130221_01-e.pdf

4. Unit 1 Torus Room Inside Investigation: Day 1 Results (Feb. 21, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130221_02-e.pdf

5. Unit 1 Torus Room Inside Investigation: Day 2 Results (Feb. 22, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130222_05-e.pdf

6. Unit 2 Reactor Building Refueling Floor Gamma Camera Image (Feb. 22, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130222_04-e.pdf

7. Unit 2 TIP Guide Tube Inspection (Feb. 22, 2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130222_06-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, February 07, 2013 6:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Feb. 8 at 3pm EST

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri. Feb. 8, 2013 at 3 pm EST
(No call for the next 2 weeks. Next call will be on Fri. March 1 at 3 pm EST)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Roadmap Towards Decommissioning Units 1-4 (Jan. 31)
(only in Japanese; 151 pages in total; 6 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130131_01-j.pdf

2. Additional Photos of Fukushima Daiichi Recently Made Public Taken During the Period of March 15 to April 11, 2011 (Feb. 1)
http://photo.tepco.co.jp/en/date/2013/201302-e/130201-01e.html

3. Removal of Debris from Upper Part of Unit 3 Reactor Building (Feb. 4, 6)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130204_01-e.pdf
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130206_01-e.pdf

4. Video Clip Taken Inside Unit 1 Reactor Building on 10/18/2011 Shown to the Diet Investigation Committee on 2/28/2012 (Feb. 7)
(only in Japanese; 22 minutes)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=400011946002

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, January 31, 2013 6:52 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Feb. 1 at 3pm EST

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Feb. 1 at 3 pm EST
(Next call will be on Fri, Feb. 8 at 3 pm EST)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Plan for Units 1 & 2 Torus Room (Jan. 25)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130125_02-e.pdf

2. Unit 2 Torus Room Investigation Attempt (Jan. 28)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130128_03-e.pdf

3. Construction Status of Ground Water Bypass System (Jan. 28)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130128_04-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, January 17, 2013 6:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Jan. 18 at 3pm EST

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Jan. 18, 2013 at 3 pm EST
(Next call will be on Fri, Jan. 25 at 3 pm EST)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Establishment of "Fukushima Revitalization Headquarters" (Jan. 7)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130107_04-e.pdf

2. Unit 4 Defueling Structure Construction Status (Jan. 15)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130115_01-e.pdf

3. The Guardian Article *"Fukushima 50: 'We felt like kamikaze pilots ready to sacrifice everything'"* (Jan. 11)
http://www.guardian.co.uk/environment/2013/jan/11/fukushima-50-kamikaze-pilots-sacrifice

All the best,
Kenji

Esmaili, Hossein

From: Tateiwa, Kenji <tateiwa@wash.tepco.com>
Sent: Monday, March 11, 2013 7:28 AM
To: Norton, Charles
Cc: tateiwa.kenji@tepco.co.jp; Skeen, David; Orders, William; Marksberry, Don; Lee, Richard; Salay, Michael; Esmaili, Hossein; Nakanishi, Tony; Randy Gauntt
Subject: Re: Experts cast doubt on reactor cooling strategy (1F3)

Chuck,

I can clarify this discussion.
However, I am now in Cambridge, MA to talk to MIT and Harvard students on Fukushima today and tomorrow and may not have enough time to put together a response.
I will try to get back to you as soon as possible.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Outside of Scope

Esmaili, Hossein

From: Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp>
Sent: Tuesday, March 12, 2013 11:59 PM
To: Norton, Charles
Cc: Skeen, David; Orders, William; Marksberry, Don; Lee, Richard; Salay, Michael; Esmaili, Hossein; Nakanishi, Tony; Randy Gauntt
Subject: Re: Experts cast doubt on reactor cooling strategy (1F3)

Chuck,

At Fukushima Daiichi, we injected sea water from fire trucks via fire protection system and make-up water condensate system (MUWC) as alternate core injection.
MUWC is connected to various system and we recognized that there is a possibility of bypass flow that would not reach the core.

However, during the accident the top priority was to inject water into the core as soon as possible, and therefore we could not divert resource to isolate multiple valves to eliminate bypass flow.
Also, we could only measure the flow rate from the fire trucks and not the exact flow rate that reached the core.

We eventually switched from MUWC to feedwater system as injection path to the core to minimize bypass flow.
Also, we have implemented various modifications at our Kashiwazaki-Kariwa site to enhance reliability of alternate core injection.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Norton, Charles
Cc: tateiwa.kenji@tepco.co.jp ; Skeen, David ; Orders, William ; Marksberry, Don ; Lee, Richard ; Salay, Michael ; Esmaili, Hossein ; Nakanishi, Tony ; Randy Gauntt
Sent: Monday, March 11, 2013 7:28 AM
Subject: Re: Experts cast doubt on reactor cooling strategy (1F3)

Chuck,

I can clarify this discussion.
However, I am now in Cambridge, MA to talk to MIT and Harvard students on Fukushima today and tomorrow and may not have enough time to put together a response.
I will try to get back to you as soon as possible.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 1938 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, May 16, 2013 10:09 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)

4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 25, 2013 8:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 26 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri. April 26, 2013 at 3 pm EDT
(Next call will be on Fri, May 3 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. 3rd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130419_01-j.pdf

2. History on Installation of Underground Reservoirs and Estimated Cause of Leakage (4/19/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130419_05-j.pdf

3. Response to Inquiries from Regulatory Oversight Committee Regarding Water Issues (4/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130419_07-e.pdf

4. Unit 2 PCV Investigation: Removal of Stuck Guide Pipe (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_10-e.pdf

5. Unit 3 Reactor Building Debris Removal (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_08-e.pdf

6. Work Status Related to Underground Reservoir Leakage (4/25/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130425_03-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 18, 2013 9:34 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 19 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 19, 2013 at 3 pm EDT
(Next call will be on Fri, April 26 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Establishment of Emergency Response H/Q for 1F Reliability Improvement (4/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130408_02-e.pdf

2. Unit 1 Reactor Building 1st Floor Personnel Airlock Investigation Results (4/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130409_10-e.pdf

3. Unit 4 Fuel Removal Structure Construction Status (4/11/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/20130411-02e.html

4. Unit 2 Torus Room Investigation Results (4/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130412_08-e.pdf

5. Unit 2 MSIV Room Investigation Results (4/16/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130416_06-e.pdf

6. IAEA Review of 1F Decommissioning Status (4/17/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/130417-01e.html

7. Status of Contaminated Water Leakage from Underground Reservoirs (4/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130417_02-j.pdf

(schematic of reservoirs)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130407_02-e.pdf

(water transfer plan as of April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_05-e.pdf

(work performed on April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_02-e.pdf

(radionuclide analysis results as of April 19)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/chosui_13041901-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 04, 2013 11:15 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 5 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 5, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, April 19 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Progress Status of Groundwater Bypass System Construction (3/27/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130327_03-e.pdf

2. Outline of On-site Power Supply Failure Incident for 1F Units 1-4 (3/28/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130328_02-e.pdf

3. Status of Unit 1 Reactor Building 4th Floor (3/28/2013)
http://photo.tepco.co.jp/en/date/2013/201303-e/130328-01e.html

4. Verification Tests on Remote Decontamination Technologies (3/29/2013)
http://photo.tepco.co.jp/en/date/2013/201303-e/130329-02e.html

5. Overview of ALPS System (3/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130329_01-e.pdf

6. Progress Status of Sea-side Impermeable Wall Construction (4/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130402_01-e.pdf

7. 1st Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (3/28/2013)
(only in Japanese; 9.6 MB; 160 pages)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130328_05-j.pdf

8. 2nd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/2/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130402_01-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, March 21, 2013 5:52 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, March 22 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, March 22, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, April 5 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 Reactor Building Blow-out Panel Opening Closed (3/11/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130311_01-e.pdf

2. Completion of 3rd Layer of Steel Frame for Unit 4 Fuel Removal Structure (3/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130313_01-e.pdf

3. Unit 2 Vent Pipe Investigation Results (3/15/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130315_01-e.pdf
(video clips)
http://photo.tepco.co.jp/en/date/2013/201303-e/130315-01e.html

4. Unit 3 Spent Fuel Pool Desalination Completed (3/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130318_01-e.pdf

5. Unit 2 PCV Internal Investigation Results (3/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130319_03-e.pdf
(video clips)
http://photo.tepco.co.jp/en/date/2013/201303-e/130319-01e.html

6. Temporary Loss of Power (and Subsequent Recovery) of SFP Cooling System (3/20/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130320_02-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, March 07, 2013 10:47 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, March 8 at 3pm EST

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, March 8, 2013 at 3 pm EST
(No call next week. Next call will be on Fri, March 22 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Discussion on Tritium at Fukushima Daiichi (2/28/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130228_04-e.pdf

2. Unit 2 TIP Guide Tube Inspection Results (3/1/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130301_03-e.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2013/201303-e/130301-01e.html

3. Unit 2 PCV Internal Investigation and Installation of Permanent Instrumentation (3/1/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130301_02-e.pdf

4-1. Unit 2 Vent Pipe Investigation Results (3/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130305_01-e.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2013/201303-e/130305-01e.html

4-2. Unit 2 Vent Pipe Investigation Results (cont'd) (3/6/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130306_03-e.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2013/201303-e/130306-03e.html

5. First Meeting of Gov't-TEPCO-Industry Council on Promotion of Fukushima Daiichi Decommissioning (3/7/2013)
5-1. Agenda and Discussion
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130307_01-j.pdf

5-2. Progress Status towards Decommissioning
(only in Japanese: 12 MB, 246 pages)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130307_01-j.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, May 23, 2013 8:07 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company

Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM

Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 25, 2013 8:54 PM

Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 26 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 26, 2013 at 3 pm EDT
(Next call will be on Fri, May 3 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. 3rd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130419_01-j.pdf

2. History on Installation of Underground Reservoirs and Estimated Cause of Leakage (4/19/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130419_05-j.pdf

3. Response to Inquiries from Regulatory Oversight Committee Regarding Water Issues (4/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130419_07-e.pdf

4. Unit 2 PCV Investigation: Removal of Stuck Guide Pipe (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_10-e.pdf

5. Unit 3 Reactor Building Debris Removal (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_08-e.pdf

6. Work Status Related to Underground Reservoir Leakage (4/25/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130425_03-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 18, 2013 9:34 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 19 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 19, 2013 at 3 pm EDT
(Next call will be on Fri, April 26 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Establishment of Emergency Response H/Q for 1F Reliability Improvement (4/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130408_02-e.pdf

2. Unit 1 Reactor Building 1st Floor Personnel Airlock Investigation Results (4/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130409_10-e.pdf

3. Unit 4 Fuel Removal Structure Construction Status (4/11/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/130411-02e.html

4. Unit 2 Torus Room Investigation Results (4/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130412_08-e.pdf

5. Unit 2 MSIV Room Investigation Results (4/16/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130416_06-e.pdf

6. IAEA Review of 1F Decommissioning Status (4/17/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/130417-01e.html

7. Status of Contaminated Water Leakage from Underground Reservoirs (4/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130417_02-j.pdf

(schematic of reservoirs)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130407_02-e.pdf

(water transfer plan as of April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_05-e.pdf

(work performed on April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_02-e.pdf

(radionuclide analysis results as of April 19)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/chosui_13041901-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 04, 2013 11:15 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 5 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 5, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, April 19 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Progress Status of Groundwater Bypass System Construction (3/27/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130327_03-e.pdf

2. Outline of On-site Power Supply Failure Incident for 1F Units 1-4 (3/28/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130328_02-e.pdf

3. Status of Unit 1 Reactor Building 4th Floor (3/28/2013)
http://photo.tepco.co.jp/en/date/2013/201303-e/130328-01e.html

4. Verification Tests on Remote Decontamination Technologies (3/29/2013)
http://photo.tepco.co.jp/en/date/2013/201303-e/130329-02e.html

5. Overview of ALPS System (3/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130329_01-e.pdf

6. Progress Status of Sea-side Impermeable Wall Construction (4/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130402_01-e.pdf

7. 1st Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (3/28/2013)
(only in Japanese; 9.6 MB; 160 pages)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130328_05-j.pdf

8. 2nd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/2/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130402_01-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, March 21, 2013 5:52 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, March 22 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, March 22, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, April 5 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 Reactor Building Blow-out Panel Opening Closed (3/11/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130311_01-e.pdf

2. Completion of 3rd Layer of Steel Frame for Unit 4 Fuel Removal Structure (3/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130313_01-e.pdf

3. Unit 2 Vent Pipe Investigation Results (3/15/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130315_01-e.pdf
(video clips)
http://photo.tepco.co.jp/en/date/2013/201303-e/130315-01e.html

4. Unit 3 Spent Fuel Pool Desalination Completed (3/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130318_01-e.pdf

5. Unit 2 PCV Internal Investigation Results (3/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130319_03-e.pdf
(video clips)

http://photo.tepco.co.jp/en/date/2013/201303-e/130319-01e.html

6. Temporary Loss of Power (and Subsequent Recovery) of SFP Cooling System (3/20/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130320_02-e.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, June 13, 2013 9:14 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 23, 2013 8:06 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 25, 2013 8:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 26 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 26, 2013 at 3 pm EDT
(Next call will be on Fri, May 3 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. 3rd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130419_01-j.pdf

2. History on Installation of Underground Reservoirs and Estimated Cause of Leakage (4/19/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130419_05-j.pdf

3. Response to Inquiries from Regulatory Oversight Committee Regarding Water Issues (4/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130419_07-e.pdf

4. Unit 2 PCV Investigation: Removal of Stuck Guide Pipe (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_10-e.pdf

5. Unit 3 Reactor Building Debris Removal (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_08-e.pdf

6. Work Status Related to Underground Reservoir Leakage (4/25/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130425_03-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 18, 2013 9:34 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 19 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 19, 2013 at 3 pm EDT
(Next call will be on Fri, April 26 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Establishment of Emergency Response H/Q for 1F Reliability Improvement (4/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130408_02-e.pdf

2. Unit 1 Reactor Building 1st Floor Personnel Airlock Investigation Results (4/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130409_10-e.pdf

3. Unit 4 Fuel Removal Structure Construction Status (4/11/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/130411-02e.html

4. Unit 2 Torus Room Investigation Results (4/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130412_08-e.pdf

5. Unit 2 MSIV Room Investigation Results (4/16/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130416_06-e.pdf

6. IAEA Review of 1F Decommissioning Status (4/17/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/130417-01e.html

7. Status of Contaminated Water Leakage from Underground Reservoirs (4/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130417_02-j.pdf

(schematic of reservoirs)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130407_02-e.pdf

(water transfer plan as of April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_05-e.pdf

(work performed on April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_02-e.pdf

(radionuclide analysis results as of April 19)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/chosui_13041901-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 04, 2013 11:15 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 5 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 5, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, April 19 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Progress Status of Groundwater Bypass System Construction (3/27/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130327_03-e.pdf

2. Outline of On-site Power Supply Failure Incident for 1F Units 1-4 (3/28/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130328_02-e.pdf

3. Status of Unit 1 Reactor Building 4th Floor (3/28/2013)
http://photo.tepco.co.jp/en/date/2013/201303-e/130328-01e.html

4. Verification Tests on Remote Decontamination Technologies (3/29/2013)
http://photo.tepco.co.jp/en/date/2013/201303-e/130329-02e.html

5. Overview of ALPS System (3/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130329_01-e.pdf

6. Progress Status of Sea-side Impermeable Wall Construction (4/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130402_01-e.pdf

7. 1st Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (3/28/2013)
(only in Japanese; 9.6 MB; 160 pages)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130328_05-j.pdf

8. 2nd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/2/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130402_01-j.pdf

All the best,
Kenji

BEST AVAILABLE COPY

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Wednesday, June 19, 2013 9:41 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia.

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu. June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6).

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji

Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]

1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 23, 2013 8:06 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 25, 2013 8:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 26 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 26, 2013 at 3 pm EDT
(Next call will be on Fri, May 3 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. 3rd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130419_01-j.pdf

2. History on Installation of Underground Reservoirs and Estimated Cause of Leakage (4/19/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130419_05-j.pdf

3. Response to Inquiries from Regulatory Oversight Committee Regarding Water Issues (4/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130419_07-e.pdf

4. Unit 2 PCV Investigation: Removal of Stuck Guide Pipe (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_10-e.pdf

5. Unit 3 Reactor Building Debris Removal (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_08-e.pdf

6. Work Status Related to Underground Reservoir Leakage (4/25/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130425_03-e.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 18, 2013 9:34 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 19 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 19, 2013 at 3 pm EDT
(Next call will be on Fri, April 26 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Establishment of Emergency Response H/Q for 1F Reliability Improvement (4/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130408_02-e.pdf

2. Unit 1 Reactor Building 1st Floor Personnel Airlock Investigation Results (4/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130409_10-e.pdf

3. Unit 4 Fuel Removal Structure Construction Status (4/11/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/20130411-02e.html

4. Unit 2 Torus Room Investigation Results (4/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130412_08-e.pdf

5. Unit 2 MSIV Room Investigation Results (4/16/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130416_06-e.pdf

6. IAEA Review of 1F Decommissioning Status (4/17/2013)
http://photo.tepco.co.jp/en/date/2013/201304-e/130417-01e.html

7. Status of Contaminated Water Leakage from Underground Reservoirs (4/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130417_02-j.pdf

(schematic of reservoirs)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130407_02-e.pdf

(water transfer plan as of April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_05-e.pdf

(work performed on April 18)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130418_02-e.pdf

(radionuclide analysis results as of April 19)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/chosui_13041901-e.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Wednesday, July 17, 2013 9:39 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)
1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 23, 2013 8:06 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(**No call next week.** Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, April 25, 2013 8:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 26 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 26, 2013 at 3 pm EDT
(Next call will be on Fri, May 3 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. 3rd Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130419_01-j.pdf

2. History on Installation of Underground Reservoirs and Estimated Cause of Leakage (4/19/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130419_05-j.pdf

3. Response to Inquiries from Regulatory Oversight Committee Regarding Water Issues (4/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130419_07-e.pdf

4. Unit 2 PCV Investigation: Removal of Stuck Guide Pipe (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_10-e.pdf

5. Unit 3 Reactor Building Debris Removal (4/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130422_08-e.pdf

6. Work Status Related to Underground Reservoir Leakage (4/25/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130425_03-e.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, August 01, 2013 11:28 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

|Date/time|
Fri, Aug. 2, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 16** at 3 pm)

|call-in information| (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

|Major topics|
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=2552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji

Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)
1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)

http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 23, 2013 8:06 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]

1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Friday, August 23, 2013 4:01 AM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Email only for Fri, Aug. 23

Nuclear Sector Colleagues,

There will be **no call this week** due to my business trip to California.
(Next call will be on **Fri. Aug. 30** at 3 pm Eastern Time.)

However, please find below latest information on Fukushima and do feel free to contact me should you have any questions.

[Major topics]
1. Preliminary Estimation of Amount of Tritium, Cesium and Strontium Released to the Sea (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_07-e.pdf

2. Status and Countermeasures on Contaminated Groundwater Issues: Presented to the NRA Working Group (8/21/2013)
(only in Japanese; 78 pages/10 MB file)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_10-j.pdf
- Includes detailed assumptions and methodologies applied to estimate the amount of tritium, Cs, Sr released to the sea.

3. Summary Status and Countermeasures on Contaminated Groundwater Issues: Presented to the Local Fisheries Association (8/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_02-j.pdf
- Explains both immediate and fundamental measures to prevent contaminated water from entering into the sea.

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_03-j.pdf
- Explains concept of groundwater bypass system and very low or not detectable amount of radioactivity found in the groundwater.

4. Contaminated Water Leakage from H4 Area Tank (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_01-e.pdf

5. Contaminated Water Leakage from H4 Area Tank: Detailed Material Presented to the NRA Working Group (8/21/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_12-j.pdf
- Estimated amount of leakage: 300 cubic meters.

- The tank contains RO concentrated water (treated to remove much of Cs but before removing Sr and other beta-nuclides.)
- The tank is "Flange Type" made of bolt-fastened steel.
- Distance from the tank to the sea: about 500 meters.

6. Inspection Results of All Bolt-Fastened "Flange Type" Tanks (8/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130822_02-e.pdf

7. Sampling Results Along Potential Leakage Paths of Contaminated Water from H4 Area Tank (8/23/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130823-1e.pdf

8. Discussion at the NRA Commission Meeting Regarding INES Scale of H4 Area Tank Water Leakage (8/21/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/kisei/data/0019_08r.pdf
- NRA considers this event should ordinarily be scaled as "Level 3" based on the amount of estimated radioactivity leakage and lack of defense in depth.
- However, given the unique situation at Fukushima Daiichi, NRA will consult with the IAEA on how to apply the INES scale to this event.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)
tateiwa.kenji@tepco.co.jp

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 15, 2013 10:17 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 16 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 16, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 30** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Results Inside of Unit 2 PCV (8/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130812_06-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=571344891002

2. Investigation Results Inside of Unit 4 Reactor Well, Reactor Pressure Vessel and Spent Fuel Pool (8/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130809_07-e.pdf
(video clip)

http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=569537891002

3-1. Summary Status and Countermeasures on Contaminated Groundwater Issues (8/8/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130808_01.pdf

3-2. Status and Countermeasures on Contaminated Groundwater Issues (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_07-e.pdf

3-3. Status and Countermeasures on Contaminated Groundwater Issues (8/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130812_03-j.pdf

4. Approval of Implementation Plan for Specific Reactor Facility (A Comprehensive Licensing Document for 1F) (8/14/2013)
(press release)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229740_5130.html
(presentation: only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130814_10-j.pdf
(Implementatin Plan: only in Japanese; 146 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf
(appendix: only in Japanese; 24.7 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0202.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 01, 2013 11:27 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, **Aug. 2**, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 16** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)
1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 23, 2013 8:06 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(**No call next week.** Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)
6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Friday, August 30, 2013 12:40 AM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 30 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.
(Pardon my harsh voice due to sore throat, in advance.)

[Date/time]
Fri, Aug. 30, 2013 at 3 pm Eastern Time
(Next call will be on Fri, Sept. 6 at 3 pm)

[Major topics]
1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_05-j.pdf

2. Establishment of "Contaminated Water and Tank Task Force" and Risk Mitigation Actions (8/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130826_07-j.pdf

3. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_04-j.pdf

4-1. NRA Revises INES Scale to 3 for H4 Area Tank Water Leakage Event (8/28/2013)
(only in Japanese)
http://www.nsr.go.jp/activity/bousai/trouble/20130828-1.html

4-2. IAEA's Comments Regarding Applicability of INES to This Event
http://www.nsr.go.jp/activity/bousai/trouble/data/20130828-1.pdf

5-1. Cs Concentration in Fish within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_06-j.pdf

5-2. Cs Concentration in Fish and Seawater within 20-km Radius of 1F (8/28/2013)
(only in Japanese)

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_04-j.pdf

6. Seventh Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (8/29/2013)
(only in Japanese)
6-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_04-j.pdf

6-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_05-j.pdf

6-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

6-4. Establishment of International Research Institute for Nuclear Decommissioning (IRID)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_08-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)
tateiwa.kenji@tepco.co.jp

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 23, 2013 4:00 AM
Subject: [TEPCO Weekly Fukushima Update Call] Email only for Fri, Aug. 23

Nuclear Sector Colleagues,

There will be **no call this week** due to my business trip to California.
(Next call will be on **Fri, Aug. 30** at 3 pm Eastern Time.)

However, please find below latest information on Fukushima and do feel free to contact me should you have any questions.

[Major topics]
1. Preliminary Estimation of Amount of Tritium, Cesium and Strontium Released to the Sea (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_07-e.pdf

2. Status and Countermeasures on Contaminated Groundwater Issues: Presented to the NRA Working Group (8/21/2013)
(only in Japanese; 78 pages/10 MB file)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_10-j.pdf
- Includes detailed assumptions and methodologies applied to estimate the amount of tritium, Cs, Sr released to the sea.

3. Summary Status and Countermeasures on Contaminated Groundwater Issues: Presented to the Local Fisheries Association (8/22/2013)
(only in Japanese)

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_02-j.pdf
- Explains both immediate and fundamental measures to prevent contaminated water from entering into the sea.

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_03-j.pdf
- Explains concept of groundwater bypass system and very low or not detectable amount of radioactivity found in the groundwater.

4. Contaminated Water Leakage from H4 Area Tank (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_01-e.pdf

5. Contaminated Water Leakage from H4 Area Tank: Detailed Material Presented to the NRA Working Group (8/21/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_12-j.pdf
- Estimated amount of leakage: 300 cubic meters.
- The tank contains RO concentrated water (treated to remove much of Cs but before removing Sr and other beta-nuclides.)
- The tank is "Flange Type" made of bolt-fastened steel.
- Distance from the tank to the sea: about 500 meters.

6. Inspection Results of All Bolt-Fastened "Flange Type" Tanks (8/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130822_02-e.pdf

7. Sampling Results Along Potential Leakage Paths of Contaminated Water from H4 Area Tank (8/23/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130823-1e.pdf

8. Discussion at the NRA Commission Meeting Regarding INES Scale of H4 Area Tank Water Leakage (8/21/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/kisei/data/0019_08r.pdf
- NRA considers this event should ordinarily be scaled as "Level 3" based on the amount of estimated radioactivity leakage and lack of defense in depth.
- However, given the unique situation at Fukushima Daiichi, NRA will consult with the IAEA on how to apply the INES scale to this event.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 15, 2013 10:17 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 16 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 16, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 30** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Results Inside of Unit 2 PCV (8/12/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130812_06-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=571344891002

2. Investigation Results Inside of Unit 4 Reactor Well, Reactor Pressure Vessel and Spent Fuel Pool (8/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130809_07-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=569537891002

3-1. Summary Status and Countermeasures on Contaminated Groundwater Issues (8/8/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130808_01.pdf

3-2. Status and Countermeasures on Contaminated Groundwater Issues (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_07-e.pdf

3-3. Status and Countermeasures on Contaminated Groundwater Issues (8/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130812_03-j.pdf

4. Approval of Implementation Plan for Specific Reactor Facility (A Comprehensive Licensing Document for 1F) (8/14/2013)
(press release)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229740_5130.html
(presentation: only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130814_10-j.pdf
(Implementatin Plan: only in Japanese; 146 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf
(appendix: only in Japanese; 24.7 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0202.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 01, 2013 11:27 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 2, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 16** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf

1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)
1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(**Next call will be on** Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 23, 2013 8:06 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 24 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 24, 2013 at 3 pm EDT
(**No call next week.** Next call will be on Fri, June 7 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Slight Increase in Unit 1 PCV Temperature (5/17/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130517_07-e.pdf

2. Hot Test Results of ALPS and Next Steps (5/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130517_04-j.pdf

3. 4th Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/21/2013)
(Decision to construct Mock-up Facility for development and demonstration of remote-operated equipment in Naraha Town.)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130522_01-j.pdf

4. Final Report of IAEA Peer Review Mission on Mid-and-Long-Term Roadmap Towards Decommissioning (5/23/2013)
http://www.meti.go.jp/press/2013/05/20130523001/20130523001-4.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 16, 2013 10:09 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 17 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 17, 2013 at 3 pm EDT
(Next call will be on Fri, May 24 at 3 pm EDT)
[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Increase in Direct/Skyshine Radiation at Site Boundary due to Transfer of Contaminated Water to Above-Ground Tanks (5/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130507_04-j.pdf

2. Unit 1 Reactor Building Cover to be Dismantled in Preparation for Fuel Removal (5/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130509_07-e.pdf

3. New Findings Related to Chronology of Unit 1 SBO and Isolation Condenser Valve Closure (5/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130510_09-e.pdf

4. Status of Ground Water Bypass System Explained to Local Fisheries Cooperative (5/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130513_06-e.pdf

5. Progress of Emergency Response H/Q for 1F Reliability Improvement (5/16/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130516_03-j.pdf

6. Second Meeting of Contaminated Water Treatment Committee (5/16/2013)
(only in Japanese)

6-1. Study on Fundamental Measures to Prevent Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_03-j.pdf

6-2. Contaminated Water Leakage from Underground Reservoirs Considered to be Much Less than Initial Estimate
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_04-j.pdf

6-3. Measures to Reduce Contaminated Water
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130516_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, May 02, 2013 6:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 3 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 3, 2013 at 3 pm EDT
(No call next week. Next call will be on Fri, May 17 at 3 pm EDT)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Status of Ground Water Bypass System (4/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130426_09-e.pdf

2. Investigation Plan for Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_08-e.pdf

3. Progress of Water Transfer from Underground Reservoirs (5/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130502_07-e.pdf

4. 2nd Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (4/26/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_05-j.pdf

4-4. Status of Leakage from Underground Reservoirs
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_07-j.pdf

4-5. IAEA Press Release

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130426_08-j.pdf

5. 1st Meeting of Contaminated Water Treatment Committee (4/26/2013)
(only in Japanese)
5-1. Short-term Actions
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_04-j.pdf

5-2. Permanent Measures to Stop Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_05-j.pdf

5-3. Tritium Treatment Methodologies
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130426_06-j.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Thursday, September 05, 2013 11:54 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 13** at 3 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks
6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)
tateiwa.kenji@tepco.co.jp

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 30, 2013 12:40 AM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 30 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.
(Pardon my harsh voice due to sore throat, in advance.)

[Date/time]
Fri, **Aug. 30**, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 6** at 3 pm)

[Major topics]
1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_05-j.pdf

2. Establishment of "Contaminated Water and Tank Task Force" and Risk Mitigation Actions (8/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130826_07-j.pdf

3. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_04-j.pdf

4-1. NRA Revises INES Scale to 3 for H4 Area Tank Water Leakage Event (8/28/2013)
(only in Japanese)
http://www.nsr.go.jp/activity/bousai/trouble/20130828-1.html

4-2. IAEA's Comments Regarding Applicability of INES to This Event
http://www.nsr.go.jp/activity/bousai/trouble/data/20130828-1.pdf

5-1. Cs Concentration in Fish within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_06-j.pdf

5-2. Cs Concentration in Fish and Seawater within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_04-j.pdf

6. Seventh Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (8/29/2013)
(only in Japanese)
6-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_04-j.pdf

6-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_05-j.pdf

6-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

6-4. Establishment of International Research Institute for Nuclear Decommissioning (IRID)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_08-j.pdf

All the best,
Kenji

----- Original Message -----

From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 23, 2013 4:00 AM
Subject: [TEPCO Weekly Fukushima Update Call] Email only for Fri, Aug. 23

Nuclear Sector Colleagues,

There will be **no call this week** due to my business trip to California.
(Next call will be on **Fri, Aug. 30** at 3 pm Eastern Time.)

However, please find below latest information on Fukushima and do feel free to contact me should you have any questions.

[Major topics]
1. Preliminary Estimation of Amount of Tritium, Cesium and Strontium Released to the Sea (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_07-e.pdf

2. Status and Countermeasures on Contaminated Groundwater Issues: Presented to the NRA Working Group (8/21/2013)
(only in Japanese; 78 pages/10 MB file)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_10-j.pdf
- Includes detailed assumptions and methodologies applied to estimate the amount of tritium, Cs, Sr released to the sea.

3. Summary Status and Countermeasures on Contaminated Groundwater Issues: Presented to the Local Fisheries Association (8/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_02-j.pdf
- Explains both immediate and fundamental measures to prevent contaminated water from entering into the sea.

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_03-j.pdf
- Explains concept of groundwater bypass system and very low or not detectable amount of radioactivity found in the groundwater.

4. Contaminated Water Leakage from H4 Area Tank (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_01-e.pdf

5. Contaminated Water Leakage from H4 Area Tank: Detailed Material Presented to the NRA Working Group (8/21/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_12-j.pdf
- Estimated amount of leakage: 300 cubic meters.
- The tank contains RO concentrated water (treated to remove much of Cs but before removing Sr and other beta-nuclides.)
- The tank is "Flange Type" made of bolt-fastened steel.
- Distance from the tank to the sea: about 500 meters.

6. Inspection Results of All Bolt-Fastened "Flange Type" Tanks (8/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130822_02-e.pdf

7. Sampling Results Along Potential Leakage Paths of Contaminated Water from H4 Area Tank (8/23/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130823-1e.pdf

8. Discussion at the NRA Commission Meeting Regarding INES Scale of H4 Area Tank Water Leakage (8/21/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/kisei/data/0019_08r.pdf
- NRA considers this event should ordinarily be scaled as "Level 3" based on the amount of estimated radioactivity leakage and lack of defense in depth.

- However, given the unique situation at Fukushima Daiichi, NRA will consult with the IAEA on how to apply the INES scale to this event.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 15, 2013 10:17 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 16 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 16, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 30** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Results Inside of Unit 2 PCV (8/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130812_06-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=571344891002

2. Investigation Results Inside of Unit 4 Reactor Well, Reactor Pressure Vessel and Spent Fuel Pool (8/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130809_07-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=569537891002

3-1. Summary Status and Countermeasures on Contaminated Groundwater Issues (8/8/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130808_01.pdf

3-2. Status and Countermeasures on Contaminated Groundwater Issues (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_07-e.pdf

3-3. Status and Countermeasures on Contaminated Groundwater Issues (8/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130812_03-j.pdf

4. Approval of Implementation Plan for Specific Reactor Facility (A Comprehensive Licensing Document for 1F) (8/14/2013)
(press release)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229740_5130.html
(presentation: only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130814_10-j.pdf
(Implementatin Plan: only in Japanese; 146 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf
(appendix: only in Japanese; 24.7 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0202.pdf

All the best,

Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 01, 2013 11:27 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 2, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 16** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf

(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)
1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
· http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)

(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, September 07, 2013 1:27 PM
To: Tateiwa, Kenji
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Pleaese find below answers to questions that I received related to the call on Sept. 6th.

(Q-1) What are the composition of contaminated water in the underground trenches near the port?
(A-1) Sampling results as of 7/31/2013 were as follows:

Unit 2 seawater piping trench vertical shaft C (depth 1m)
Cs-134: 1.1E+8 Bq/liter
Cs-137: 2.3E+8 Bq/liter
Gross beta: 3.3E+8 Bq/liter
Tritium: 2.4E+6 Bq/liter

Unit 3 seawater piping trench vertical shaft B (depth 1m)
Cs-134: 1.3E+7 Bq/liter
Cs-137: 2.6E+7 Bq/liter
Gross beta: 3.2E+7 Bq/liter
Tritium: 3.6E+5 Bq/liter

(reference: trench water analysis results (Japanese))
http://www.tepco.co.jp/nu/fukushima-np/f1/smp/2013/images/trench0203_130802-j.pdf

(Q-2) How is the number of thermometers in the primary containment regulated?
(A-2) In page 758/3230 of the "Implementation Plan for Specific Reactor Facility", which is a Tech. Spec.-equivalent licensing document for Fukushima Daiichi NPS, it is stipulated as follows:

"Multiple thermometers shall be installed in the RPV and PCV in the circumferential direction and vertical direction."
"Thermometers deemed disfunctional shall be excluded."
"Installation of new thermometers shall be planned and implemented in anticipation of thermometers becoming disfunctional."

(reference: Implementation Plan for Specific Reactor Facility (Japanese))
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf

All the best,

Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 05, 2013 11:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 13** at 3 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks

6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 30, 2013 12:40 AM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 30 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.
(Pardon my harsh voice due to sore throat, in advance.)

[Date/time]
Fri, Aug. 30, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 6** at 3 pm)

[Major topics]
1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/27/2013)

(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_05-j.pdf

2. Establishment of "Contaminated Water and Tank Task Force" and Risk Mitigation Actions (8/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130826_07-j.pdf

3. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_04-j.pdf

4-1. NRA Revises INES Scale to 3 for H4 Area Tank Water Leakage Event (8/28/2013)
(only in Japanese)
http://www.nsr.go.jp/activity/bousai/trouble/20130828-1.html

4-2. IAEA's Comments Regarding Applicability of INES to This Event
http://www.nsr.go.jp/activity/bousai/trouble/data/20130828-1.pdf

5-1. Cs Concentration in Fish within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_06-j.pdf

5-2. Cs Concentration in Fish and Seawater within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_04-j.pdf

6. Seventh Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (8/29/2013)
(only in Japanese)
6-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_04-j.pdf

6-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_05-j.pdf

6-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

6-4. Establishment of International Research Institute for Nuclear Decommissioning (IRID)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_08-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 23, 2013 4:00 AM
Subject: [TEPCO Weekly Fukushima Update Call] Email only for Fri, Aug. 23

Nuclear Sector Colleagues,

There will be **no call this week** due to my business trip to California.
(Next call will be on **Fri, Aug. 30** at 3 pm Eastern Time.)

However, please find below latest information on Fukushima and do feel free to contact me should you have any questions.

[Major topics]
1. Preliminary Estimation of Amount of Tritium, Cesium and Strontium Released to the Sea (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_07-e.pdf

2. Status and Countermeasures on Contaminated Groundwater Issues: Presented to the NRA Working Group (8/21/2013)
(only in Japanese; 78 pages/10 MB file)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_10-j.pdf
- Includes detailed assumptions and methodologies applied to estimate the amount of tritium, Cs, Sr released to the sea.

3. Summary Status and Countermeasures on Contaminated Groundwater Issues: Presented to the Local Fisheries Association (8/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_02-j.pdf
- Explains both immediate and fundamental measures to prevent contaminated water from entering into the sea.

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_03-j.pdf
- Explains concept of groundwater bypass system and very low or not detectable amount of radioactivity found in the groundwater.

4. Contaminated Water Leakage from H4 Area Tank (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_01-e.pdf

5. Contaminated Water Leakage from H4 Area Tank: Detailed Material Presented to the NRA Working Group (8/21/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_12-j.pdf
- Estimated amount of leakage: 300 cubic meters.
- The tank contains RO concentrated water (treated to remove much of Cs but before removing Sr and other beta-nuclides.)
- The tank is "Flange Type" made of bolt-fastened steel.
- Distance from the tank to the sea: about 500 meters.

6. Inspection Results of All Bolt-Fastened "Flange Type" Tanks (8/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130822_02-e.pdf

7. Sampling Results Along Potential Leakage Paths of Contaminated Water from H4 Area Tank (8/23/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130823-1e.pdf

8. Discussion at the NRA Commission Meeting Regarding INES Scale of H4 Area Tank Water Leakage (8/21/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/kisei/data/0019_08r.pdf
- NRA considers this event should ordinarily be scaled as "Level 3" based on the amount of estimated radioactivity leakage and lack of defense in depth.
- However, given the unique situation at Fukushima Daiichi, NRA will consult with the IAEA on how to apply the INES scale to this event.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 15, 2013 10:17 PM

Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 16 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 16, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 30 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Results Inside of Unit 2 PCV (8/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130812_06-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=571344891002

2. Investigation Results Inside of Unit 4 Reactor Well, Reactor Pressure Vessel and Spent Fuel Pool (8/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130809_07-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=569537891002

3-1. Summary Status and Countermeasures on Contaminated Groundwater Issues (8/8/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130808_01.pdf

3-2. Status and Countermeasures on Contaminated Groundwater Issues (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_07-e.pdf

3-3. Status and Countermeasures on Contaminated Groundwater Issues (8/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130812_03-j.pdf

4. Approval of Implementation Plan for Specific Reactor Facility (A Comprehensive Licensing Document for 1F) (8/14/2013)
(press release)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229740_5130.html
(presentation: only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130814_10-j.pdf
(Implementatin Plan: only in Japanese; 146 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf
(appendix: only in Japanese; 24.7 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0202.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 01, 2013 11:27 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 2, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 16** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]

1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)

1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)

(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, September 12, 2013 9:04 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 13, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 20** at 3 pm)

[Major topics]
1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_11-j.pdf

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_08-j.pdf

3. English Website on Contaminated Water Issues and Countermeasures
http://www.tepco.co.jp/en/nu/fukushima-np/water/index-e.html

4. TEPCO President Mr. Hirose's Video Message on Contaminated Water Issues (9/5/2013)
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/130905_01e.wmv

5. Installation of Water Level Monitoring System in Tank Farms (9/6/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130906_09-e.pdf

6. Gross-beta and Tritium Detected from Groundwater Near Leakage from H4 Area Tank (9/11/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130911-3-e.pdf

7. Radioactivity in H4 Area #5 Tank (9/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130912-2-e.pdf

8. Current Status on Contaminated Water Issues (9/9/2013)
(only in Japanese)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l130909_04-j.pdf

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_05-j.pdf

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_06-j.pdf

11. Mr. Lake Barrett to Advise TEPCO on Contaminated Water Issues (9/10/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230443_5130.html

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Saturday, September 07, 2013 1:27 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Pleaese find below answers to questions that I received related to the call on Sept. 6th.

(Q-1) What are the composition of contaminated water in the underground trenches near the port?
(A-1) Sampling results as of 7/31/2013 were as follows:

Unit 2 seawater piping trench vertical shaft C (depth 1m)
Cs-134: 1.1E+8 Bq/liter
Cs-137: 2.3E+8 Bq/liter
Gross beta: 3.3E+8 Bq/liter
Tritium: 2.4E+6 Bq/liter

Unit 3 seawater piping trench vertical shaft B (depth 1m)
Cs-134: 1.3E+7 Bq/liter
Cs-137: 2.6E+7 Bq/liter
Gross beta: 3.2E+7 Bq/liter
Tritium: 3.6E+5 Bq/liter

(reference: trench water analysis results (Japanese))
http://www.tepco.co.jp/nu/fukushima-np/f1/smp/2013/images/trench0203_130802-j.pdf

(Q-2) How is the number of thermometers in the primary containment regulated?

(A-2) In page 758/3230 of the "Implementation Plan for Specific Reactor Facility", which is a Tech. Spec.-equivalent licensing document for Fukushima Daiichi NPS, it is stipulated as follows:

"Multiple thermometers shall be installed in the RPV and PCV in the circumferential direction and vertical direction."
"Thermometers deemed disfunctional shall be excluded."
"Installation of new thermometers shall be planned and implemented in anticipation of thermometers becoming disfunctional."

(reference: Implementation Plan for Specific Reactor Facility (Japanese))
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 05, 2013 11:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 13** at 3 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks
6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 30, 2013 12:40 AM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 30 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.
(Pardon my harsh voice due to sore throat, in advance.)

[Date/time]
Fri, Aug. 30, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 6** at 3 pm)

[Major topics]
1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_05-j.pdf

2. Establishment of "Contaminated Water and Tank Task Force" and Risk Mitigation Actions (8/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130826_07-j.pdf

3. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_04-j.pdf

4-1. NRA Revises INES Scale to 3 for H4 Area Tank Water Leakage Event (8/28/2013)
(only in Japanese)
http://www.nsr.go.jp/activity/bousai/trouble/20130828-1.html

4-2. IAEA's Comments Regarding Applicability of INES to This Event
http://www.nsr.go.jp/activity/bousai/trouble/data/20130828-1.pdf

5-1. Cs Concentration in Fish within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_06-j.pdf

5-2. Cs Concentration in Fish and Seawater within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_04-j.pdf

6. Seventh Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (8/29/2013)
(only in Japanese)
6-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_04-j.pdf

6-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_05-j.pdf

6-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

6-4. Establishment of International Research Institute for Nuclear Decommissioning (IRID)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_08-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 23, 2013 4:00 AM
Subject: [TEPCO Weekly Fukushima Update Call] Email only for Fri, Aug. 23

Nuclear Sector Colleagues,

There will be **no call this week** due to my business trip to California.
(Next call will be on **Fri, Aug. 30** at 3 pm Eastern Time.)

However, please find below latest information on Fukushima and do feel free to contact me should you have any questions.

[Major topics]

1. Preliminary Estimation of Amount of Tritium, Cesium and Strontium Released to the Sea (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_07-e.pdf

2. Status and Countermeasures on Contaminated Groundwater Issues: Presented to the NRA Working Group (8/21/2013)
(only in Japanese; 78 pages/10 MB file)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_10-j.pdf
- Includes detailed assumptions and methodologies applied to estimate the amount of tritium, Cs, Sr released to the sea.

3. Summary Status and Countermeasures on Contaminated Groundwater Issues: Presented to the Local Fisheries Association (8/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_02-j.pdf
- Explains both immediate and fundamental measures to prevent contaminated water from entering into the sea.

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_03-j.pdf
- Explains concept of groundwater bypass system and very low or not detectable amount of radioactivity found in the groundwater.

4. Contaminated Water Leakage from H4 Area Tank (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_01-e.pdf

5. Contaminated Water Leakage from H4 Area Tank: Detailed Material Presented to the NRA Working Group (8/21/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_12-j.pdf
- Estimated amount of leakage: 300 cubic meters.
- The tank contains RO concentrated water (treated to remove much of Cs but before removing Sr and other beta-nuclides.)
- The tank is "Flange Type" made of bolt-fastened steel.
- Distance from the tank to the sea: about 500 meters.

6. Inspection Results of All Bolt-Fastened "Flange Type" Tanks (8/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130822_02-e.pdf

7. Sampling Results Along Potential Leakage Paths of Contaminated Water from H4 Area Tank (8/23/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130823-1e.pdf

8. Discussion at the NRA Commission Meeting Regarding INES Scale of H4 Area Tank Water Leakage (8/21/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/kisei/data/0019_08r.pdf
- NRA considers this event should ordinarily be scaled as "Level 3" based on the amount of estimated radioactivity leakage and lack of defense in depth.
- However, given the unique situation at Fukushima Daiichi, NRA will consult with the IAEA on how to apply the INES scale to this event.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 15, 2013 10:17 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 16 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, **Aug. 16**, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 30** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Results Inside of Unit 2 PCV (8/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130812_06-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=571344891002

2. Investigation Results Inside of Unit 4 Reactor Well, Reactor Pressure Vessel and Spent Fuel Pool (8/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130809_07-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=569537891002

3-1. Summary Status and Countermeasures on Contaminated Groundwater Issues (8/8/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130808_01.pdf

3-2. Status and Countermeasures on Contaminated Groundwater Issues (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_07-e.pdf

3-3. Status and Countermeasures on Contaminated Groundwater Issues (8/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130812_03-j.pdf

4. Approval of Implementation Plan for Specific Reactor Facility (A Comprehensive Licensing Document for 1F) (8/14/2013)
(press release)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229740_5130.html
(presentation: only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130814_10-j.pdf
(Implementatin Plan: only in Japanese; 146 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf
(appendix: only in Japanese; 24.7 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0202.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 01, 2013 11:27 PM

Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 2, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 16 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM

Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)
1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, June 19, 2013 9:40 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, June 20 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, June 20, 2013 at 3 pm Eastern Time

(No call for the next 2 weeks. Next call will be on Fri, July 12 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. High Concentration of Tritium Detected in Ground Water Near the Ocean (6/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130619_03-e.pdf

2. Inspection Results of Unit 2 Reactor Building 1st Floor High Elevation Area (6/19/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130619_06-j.pdf

3. NRA Concurs with TEPCO's Argument that Water Leakage Witnessed at Unit 1 R/B 4th Floor Was Due to Sloshing; Not Breach of Pressure Boundary (6/17/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/jiko_bunseki/data/0002_02.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 13, 2013 9:14 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 14 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 14, 2013 at 3 pm Eastern Time
(Next call will be on Thu, June 20 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Third Meeting of Contaminated Water Treatment Committee (5/30/2013)
(only in Japanese)

1-1. Countermeasures to Mitigate Ground Water Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_03-j.pdf

1-2. Various Topics
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130530_05-j.pdf

2. Fourth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/10/2013)
(only in Japanese)

2-1. Discussion Paper on Revising the Mid-to-Long Term Roadmap Towards Decommissioning
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_04-j.pdf

2-2. Major Schedules in the Discussion Paper
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130610_06-j.pdf

3. Briefing Material on Contaminated Water Treatment and Ground Water Bypass for the Local Fisheries Cooperative (6/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130613_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, June 06, 2013 8:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, June 7 at 3pm EDT

Colleagues of nuclear-related U.S. government agencies, national labs and academia,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, June 7, 2013 at 3 pm Eastern Time
(Next call will be on Fri, June 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 4 Reactor Building and Spent Fuel Pool Integrity (5th) Inspection Results (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_10-e.pdf

2. Completion of Steel Frame of Unit 4 Fuel Removal Structure (5/29/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130529_08-e.pdf

3. Small Leakage from G6 Area Above-Ground Tank (6/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130605_07-e.pdf

4. Third Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (5/30/2013)
(only in Japanese)
4-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_03-j.pdf

4-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_04-j.pdf

4-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130530_05-j.pdf

All the best,
Kenji

Esmaili, Hossein

From: Marksberry, Don
Sent: Friday, October 04, 2013 5:58 AM
To: Lee, Richard; Salay, Michael; Esmaili, Hossein; Helton, Donald; Norton, Charles; Nakanishi, Tony; Witt, Kevin; Lane, John; Mitman, Jeffrey; Notafrancesco, Allen; Basu, Sudhamay; Randy Gauntt; Siu, Nathan; Jimenez, Manuel; Reckley, William; Arndt, Steven; Collins, Timothy; Laur, Steven; Orders, William; Williams, Vince; Huffert, Anthony; Fuller, Edward; Fuhrmann, Mark
Subject: FW: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, October 03, 2013 10:50 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 4, 2013 at 3 pm Eastern Time
(Next call will be on <u>**Thu, Oct. 10**</u> at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6) 25057200# 2

[Major topics]
1. Niigata Prefectural Governor's Approval to Apply for Regulatory Standard Compliance Review of Kashiwazaki-Kariwa Units 6 and 7 (9/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230926_5130.html

2. Application for Regulatory Standard Compliance Review of KK Units 6 and 7 (9/27/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230976_5130.html
Attachment (only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/130927j0101.pdf

3. Eighth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (9/26/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_04-j.pdf

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_07-j.pdf

4. Seventh Gov't-TEPCO Meeting on Contaminated Water Issues (9/27/2013)

4-1. Identification of Risks Related to Contaminated Water and Examination of Countermeasures
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130927_001a.pdf

4-2. On-site Progress Related to Contaminated Water Issues
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130927_05-j.pdf

5. Seventh NRA Working Group Meeting on Contaminated Water Issues (9/30/2013)
(only in Japanese)
5-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_01.pdf

5-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_02.pdf

5-3 Glitch Found in Train C of ALPS
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_03.pdf

6. Current Status and Countermeasures Against Contaminated Water Issues (9/30/2013)
6-1. Summary
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_01.pdf

6-2. Fundamental Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_02.pdf

6-3. Emergency Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_03.pdf

6-4. Current Status of H4 Area Tank #5 Leakage
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_04.pdf

6-5. Risk Reduction Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_05.pdf

7. Desalinated Water Leakage from B-Area South Tank (10/3/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131003_01-e.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6) +1-202-412-2860 6

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 19, 2013 11:18 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 20 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 20, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri; Oct. 4th** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6) 25057200# 2

[Major topics]
1. Video Tour of Fukushima Daiichi NPS (9/17/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130917-03e.html

2. Broken Beam found in Units 1&2 Main Exhaust Stack (9/18/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130918_13-j.pdf

3. Sixth NRA Working Group Meeting on Contaminated Water Issues (9/12/2013)
(only in Japanese)
3-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_05r.pdf

3-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_06.pdf

4. Sixth Gov't-TEPCO Meeting on Contaminated Water Issues (9/13/2013)
(only in Japanese)
4-1. Framework for Worldwide Technology Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_04-j.pdf

4-2. Examples of Technologies Subject to Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_05-j.pdf

(Website of International Research Institute for Nuclear Decommissioning)
http://www.irid.or.jp/en/index.html

4-3. Fundamental Countermeasures for Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_07-j.pdf

4-4. Investigation Status on Leakage from Partially-treated Water Tank
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_08-j.pdf

4-5. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_09-j.pdf

4-6. METI Minister Motegi's Presentation on Basic Policy for Decommissioning and Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_13-j.pdf

5. History of Studies Related to Implementation of Underground Barrier (9/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130913_06-j.pdf

6. Overview of Contaminated Water Issues and Countermeasures (9/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130913_01-e.pdf

7. Accumulated Rainwater Discharged from Dam Surrounding Partially-treated Contaminated Water Tanks (9/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/water/13091701-e.html

8. Radioactivity in Water Samples from Various Locations of Water Treatment System (9/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/water_130918-e.pdf

9. H4 Area Tank #5 being Dismantled (9/19/21013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130919_04-j.pdf

10. Prime Minister Abe Visits Fukushima Daiichi (9/19/2013)
(only in Japanese)
http://photo.tepco.co.jp/date/2013/201309-j/130719-02j.html

11. Response to Prime Minister's Requests Regarding Actions Related to Contaminated Water Issues (9/19/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230730_5130.html

12. No Abnormality Found at Fukushima Daiichi Due to M 5.8 Earthquake (9/20/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230749_5130.html

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, September 13, 2013 9:35 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below major points that we discussed today during the call (for those material available only in Japanese):

1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
- The robots utilize ultrasonic probe to measure the water level of the suppression chamber from outside the torus shell.
- Demonstration at Unit 5 is ongoing followed by demonstration at Unit 2 next week.

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
- The cover will have to dismantle to remove rubble from the refueling floor.
- Exhaust system of the Unit 1 reactor building cover will be stopped on Sept. 17th in preparation of dismantling the cover from around March 2014.
- Conservative estimate of incremental dose rate due to removal of the cover is only 5E-5 micro-Sievert per hour at a location 5 km away from Unit 1.

8. Current Status on Contaminated Water Issues (9/9/2013)
(page 11/45) Partially-treated contaminated water that leaked from H 4 Area Tank #5 may have flowed through the above ground draining trench to the sea; however, only minimal amount of Cs-137 was detected from the seawater near the discharge of the trench and gross-beta was below detectable level.

(pages 22/45 to 25/45) Results of sea water contamination survey conducted by NRA showed minimal to no Cs-134/137, tritium and gross-beta at locations within 20-km radius of 1F.

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(pages 3 to 38) Inspection of H 4 Area Tank #5 and integrity assessment of steel tanks.
(page 53) Samples taken from groundwater observation holes E-1 and E-2 showed high concentration of tritium and gross-beta. Tritium concentration in E-1 is rapidly increasing.
(pages 61-64) Samples taken from groundwater of the Bypass System showed no gross-beta and there has been no significant increase in tritium concentration.

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(page 4) Maximum concentration of tritium and gross-beta from various sampling points.
(page 13) No gross-beta has been detected from seawater inside the port of 1F other than in the immediate vicinity of Units1-4 intake structures.
(page 24-27) Highly contaminated water accumulated in Unit 2 branching trench has been transferred and the trench was filled with concrete and mortar. However, water seems to have backflowed from the turbine building into the trench.

On topic 5, there was a question on what kind of level gauge will be use to monitor the water level of flange-type tanks. We will be installing a level gauge on top of the tank and fix it with a flange bolt; the gauge will emit radar towards the water surface and measure the level based on the speed of the wave and time of reflection.

Have a great weekend.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 12, 2013 9:04 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 13, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 20** at 3 pm)

[Major topics]
1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_11-j.pdf

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_08-j.pdf

3. English Website on Contaminated Water Issues and Countermeasures
http://www.tepco.co.jp/en/nu/fukushima-np/water/index-e.html

4. TEPCO President Mr. Hirose's Video Message on Contaminated Water Issues (9/5/2013)
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/130905_01e.wmv

5. Installation of Water Level Monitoring System in Tank Farms (9/6/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130906_09-e.pdf

6. Gross-beta and Tritium Detected from Groundwater Near Leakage from H4 Area Tank (9/11/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130911-3-e.pdf

7. Radioactivity in H4 Area #5 Tank (9/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130912-2-e.pdf

8. Current Status on Contaminated Water Issues (9/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l130909_04-j.pdf

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_05-j.pdf

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_06-j.pdf

11. Mr. Lake Barrett to Advise TEPCO on Contaminated Water Issues (9/10/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230443_5130.html

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Saturday, September 07, 2013 1:27 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Pleaese find below answers to questions that I received related to the call on Sept. 6th.

(Q-1) What are the composition of contaminated water in the underground trenches near the port?
(A-1) Sampling results as of 7/31/2013 were as follows:

Unit 2 seawater piping trench vertical shaft C (depth 1m)
Cs-134: 1.1E+8 Bq/liter
Cs-137: 2.3E+8 Bq/liter
Gross beta: 3.3E+8 Bq/liter
Tritium: 2.4E+6 Bq/liter

Unit 3 seawater piping trench vertical shaft B (depth 1m)
Cs-134: 1.3E+7 Bq/liter
Cs-137: 2.6E+7 Bq/liter
Gross beta: 3.2E+7 Bq/liter
Tritium: 3.6E+5 Bq/liter

(reference: trench water analysis results (Japanese))
http://www.tepco.co.jp/nu/fukushima-np/f1/smp/2013/images/trench0203_130802-j.pdf

(Q-2) How is the number of thermometers in the primary containment regulated?
(A-2) In page 758/3230 of the "Implementation Plan for Specific Reactor Facility", which is a Tech. Spec.-equivalent licensing document for Fukushima Daiichi NPS, it is stipulated as follows:

"Multiple thermometers shall be installed in the RPV and PCV in the circumferential direction and vertical direction."
"Thermometers deemed disfunctional shall be excluded."
"Installation of new thermometers shall be planned and implemented in anticipation of thermometers becoming disfunctional."

(reference: Implementation Plan for Specific Reactor Facility (Japanese))
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 05, 2013 11:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 13** at 3 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks
6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 30, 2013 12:40 AM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 30 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.
(Pardon my harsh voice due to sore throat, in advance.)

[Date/time]
Fri, Aug. 30, 2013 at 3 pm Eastern Time
(Next call will be on Fri, Sept. 6 at 3 pm)

[Major topics]
1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/27/2013).
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_05-j.pdf

2. Establishment of "Contaminated Water and Tank Task Force" and Risk Mitigation Actions (8/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130826_07-j.pdf

3. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/27/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130827_04-j.pdf

4-1. NRA Revises INES Scale to 3 for H4 Area Tank Water Leakage Event (8/28/2013)
(only in Japanese)
http://www.nsr.go.jp/activity/bousai/trouble/20130828-1.html

4-2. IAEA's Comments Regarding Applicability of INES to This Event
http://www.nsr.go.jp/activity/bousai/trouble/data/20130828-1.pdf

5-1. Cs Concentration in Fish within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_06-j.pdf

5-2. Cs Concentration in Fish and Seawater within 20-km Radius of 1F (8/28/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130828_04-j.pdf

6. Seventh Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (8/29/2013)
(only in Japanese)
6-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_04-j.pdf

6-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_05-j.pdf

6-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

6-4. Establishment of International Research Institute for Nuclear Decommissioning (IRID)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_08-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, August 23, 2013 4:00 AM
Subject: [TEPCO Weekly Fukushima Update Call] Email only for Fri, Aug. 23

Nuclear Sector Colleagues,

There will be **no call this week** due to my business trip to California.
(Next call will be on **Fri, Aug. 30** at 3 pm Eastern Time.)

However, please find below latest information on Fukushima and do feel free to contact me should you have any questions.

[Major topics]
1. Preliminary Estimation of Amount of Tritium, Cesium and Strontium Released to the Sea (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_07-e.pdf

2. Status and Countermeasures on Contaminated Groundwater Issues: Presented to the NRA Working Group (8/21/2013)
(only in Japanese; 78 pages/10 MB file)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_10-j.pdf
- Includes detailed assumptions and methodologies applied to estimate the amount of tritium, Cs, Sr released to the sea.

3. Summary Status and Countermeasures on Contaminated Groundwater Issues: Presented to the Local Fisheries Association (8/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_02-j.pdf
- Explains both immediate and fundamental measures to prevent contaminated water from entering into the sea.

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130822_03-j.pdf
- Explains concept of groundwater bypass system and very low or not detectable amount of radioactivity found in the groundwater.

4. Contaminated Water Leakage from H4 Area Tank (8/21/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130821_01-e.pdf

5. Contaminated Water Leakage from H4 Area Tank: Detailed Material Presented to the NRA Working Group (8/21/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130821_12-j.pdf
- Estimated amount of leakage: 300 cubic meters.
- The tank contains RO concentrated water (treated to remove much of Cs but before removing Sr and other beta-nuclides.)
- The tank is "Flange Type" made of bolt-fastened steel.
- Distance from the tank to the sea: about 500 meters.

6. Inspection Results of All Bolt-Fastened "Flange Type" Tanks (8/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130822_02-e.pdf

7. Sampling Results Along Potential Leakage Paths of Contaminated Water from H4 Area Tank (8/23/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130823-1e.pdf

8. Discussion at the NRA Commission Meeting Regarding INES Scale of H4 Area Tank Water Leakage (8/21/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/kisei/data/0019_08r.pdf
- NRA considers this event should ordinarily be scaled as "Level 3" based on the amount of estimated radioactivity leakage and lack of defense in depth.
- However, given the unique situation at Fukushima Daiichi, NRA will consult with the IAEA on how to apply the INES scale to this event.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 15, 2013 10:17 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 16 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 16, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 30** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Investigation Results Inside of Unit 2 PCV (8/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130812_06-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=571344891002

2. Investigation Results Inside of Unit 4 Reactor Well, Reactor Pressure Vessel and Spent Fuel Pool (8/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130809_07-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=569537891002

3-1. Summary Status and Countermeasures on Contaminated Groundwater Issues (8/8/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130808_01.pdf

3-2. Status and Countermeasures on Contaminated Groundwater Issues (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_07-e.pdf

3-3. Status and Countermeasures on Contaminated Groundwater Issues (8/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130812_03-j.pdf

4. Approval of Implementation Plan for Specific Reactor Facility (A Comprehensive Licensing Document for 1F) (8/14/2013)
(press release)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229740_5130.html
(presentation: only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130814_10-j.pdf
(Implementatin Plan: only in Japanese; 146 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf
(appendix: only in Japanese; 24.7 MB)
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0202.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, August 01, 2013 11:27 PM

Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 2 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 2, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Aug. 16** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1-1. Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/19/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130719_05-e.pdf

1-2. Test Results for Hydrogen Gas Purge Test for Unit 2 Suppression Chamber (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_07-j.pdf

2. Investigation Results of Unit 2 Reactor Building PCV Penetration Vicinity (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_08-e.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=552615674002

3. Unsuccessful Attempt to Investigate Inside Unit 2 RPV Via TIP Guide Tube (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01h.pdf

4-1. Re-attempt to Investigate Inside Unit 2 PCV (7/25/2013)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01mm.pdf

4-2. Preparatory Investigation Inside Unit 2 PCV (7/31/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130731_09-j.pdf

5-1. Infrared Thermography Images of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_06-e.pdf

5-2. Ambient Dose Measured Near Shield Plug of Unit 3 Reactor Building Refueling Floor (7/24/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130724_05-e.pdf

5-3. Investigation on Steam Observed at Unit 3 Reactor Building Refueling Floor (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01e.pdf

6. Removal of Rubble Utilizing Robots in Unit 3 Reactor Building (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=554496408002

7-1. Completion of Outer Wall and Roof Panel of Unit 4 Defueling Structure (7/22/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130722_05-e.pdf

7-2. Installation of Unit 4 Fuel Handling Machine (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01gg.pdf

8. Clarification on Difference in Estimated Thyroid Equivalent Dose between WHO and TEPCO Data (7/22/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130722_06-j.pdf

9. ALPS Tank Leakage due to Corrosion and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01n.pdf

10. Groundwater Contamination Issue Near the Sea and Countermeasures (7/25/2013)
(only in Japanese)
http://www.meti.go.jp/earthquake/nuclear/pdf/130725/130725_01x.pdf

11. Issues Related to Public Announcement of Contaminated Water Leakage into 1F Port (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1229317_5130.html

12. Radioactivity of Fish Within 20-km Radius of 1F (7/26/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130726_04-j.pdf

13. Nuclear Safety Reform Plan Progress Report (7/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130726e0402.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 18, 2013 11:21 AM
Subject: Additional topic [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

I will also explain the following topic that just came out last night.

0. Steam Observed on Unit 3 Reactor Building Refueling Floor between Reactor Well and D/S Pit (7/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130718_02-j.pdf

No abnormal change in plant parameter (reactor coolant flow, RPV/PCV temperature, PCV pressure, radiation monitor, etc.) has been ovserved at this moment.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, July 17, 2013 9:38 PM

Subject: [TEPCO Weekly Fukushima Update Call] Thu, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, July 18, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on Fri, Aug. 2 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 TIP Guide Tube Borescope Investigation (7/8~11/2013)
(only in Japanese)
1-1. Day 1 (7/8)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130708_05-j.pdf
1-2. Day 2 (7/9)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130709_04-j.pdf
1-3. Day 3 (7/10)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130710_09-j.pdf
1-4. Day 4 (7/11)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_01-j.pdf
(video clip for day 4)
http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=542252254002

2. Radioactivity in Fish Caught Near 1F (7/17/2013)
2-1. Inside Port of 1F
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish01_130717-e.pdf
2-2. Within 20 km Radius of 1F (Outside Port of 1F)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/fish02_130717-e.pdf

3. Measures Taken to Prevent Fish from Leaving Port of 1F (7/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130712_02-e.pdf

4. Video Clip on Chemical Injection for Ground Improvement at Bank Protection between Units 1 and 2 (7/17/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=546505066002

5. Basic Design of Filtered Containment Venting System for Kashiwazaki Kariwa Units 6/7 (7/17/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130717_03-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, July 11, 2013 9:53 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 12 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 12, 2013 at 3 pm Eastern Time
(Next call will be on Thu, July 18 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]

1. Fifth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (6/27/2013)

1-1. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (summary)
http://www.meti.go.jp/english/press/2013/pdf/0627_01a.pdf

1-2. Mid-to-Long-Term Roadmap towards Decommissioning of 1F (full document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_04-j.pdf

1-3. Status of Establishing International Technology Development Partnership
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t130627_10-j.pdf

2. Core Injection Via Condensate Storage Tank Begins for Units 1-3 (7/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130705_02-j.pdf

3. Radioactive Materials Found in Naraha Town During Off-site Decontamination Work (7/8/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130708_05-e.pdf

4. Ground Improvement of Bank Protection by Chemical Injection (7/9/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130709_03-e.pdf

5. Sampling Results of Ground Water Near Bank Protection, etc. (7/10/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13071003-e.pdf

6. Sampling Results of Unit 3 Trench Vertical Shaft A (7/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130711_04-j.pdf

7. Mr. Masao Yoshida, Former 1F Site Superintendent, Passed Away at Age 58 (7/9/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1228822_5130.html

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, October 31, 2013 5:03 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 1 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 1, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Nov. 8** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Eighth NRA Working Group Meeting on Contaminated Water Issues (10/15/2013)
(only in Japanese)
1-1. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_01.pdf
(page 4/78) Contamination map (max. observed)
(page 17/78) Cs-134, 137, gross-beta, tritium concentration in sea water
(page 32/78) Detailed monitoring of groundwater
(page 37/78) Highly-contaminated water removal from Units 2/3 seawater piping trenches utilizing ice barrier

1-2. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_02.pdf
(page 12/135) Leakage located by vacuum inspection
(page 15/135) Close-up photo of leak path
(page 65/135) Gross-beta not detected and no increase in tritium from groundwater bypass wells

1-3. Tentative Dischargeable Contamination Level
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_05.pdf

2. Eighth Gov't-TEPCO Meeting on Contaminated Water Issues (10/25/2013)
(only in Japanese)
2-1. Overview of Contaminated Water-Related Risks and Actions to be Summarized by Year-end
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_03-j.pdf

2-2. Seven Hundred Seventy Nine Responses to Request for Information on Contaminated Water Issues

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_04-j.pdf

2-3. On-site Efforts
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf
(page 5/94) Tank leakage monitoring
(page 20/94) Rainwater control at tank farms
(page 29/94) Tank replacement plan
(page 50/94) Preventive measures for leak-out of contaminated water due to tsunami
(page 83/94) Restoration of sub-drain system
(page 90/94) Status of sea-side impermeable wall construction

3. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_04-j.pdf
(page 9/40) Core and containment cooling status
(page 19/40) Follow-up investigation on steam observed from Unit 3 reactor building refueling floor

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

4. Licensing Document Amendment in Relation to Fuel Removal Facility for Units 1-4 Approved by NRA (10/30/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/2013/1231805_5117.html

* *If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, October 09, 2013 10:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Oct. 10 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Oct. 10, 2013 at 3 pm Eastern Time
(No calls for the next 2 weeks due to business trip to Tokyo. Next call will be on **Fri, Nov. 1** at 3 pm)

[call-in information] (Please record vour name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Estimation of Tsunami Arrival Time at 1F Reconfirms Conclusion that On-site Power was Lost Due to Tsunami, Not Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_03-j.pdf

2. Seismic Analysis Shows Units 1&2 Main Exhaust Stack with Broken Beams will Remain Intact with Design-basis Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_06-j.pdf

3. Inadvertent Temporary Shutdown of Power Supply to Unit 1 Core Injection Pump and Immediate Recovery (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_08-j.pdf

4. Leak Paths Identified at Bottom of H4 Area Tank #5 (10/8/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131008_03-j.pdf

5. Water Leak Halted After Pipe Mistakenly Taken Off at Desalination System; Minor Contamination of Workers (10/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131009_04-j.pdf

6. Second On-Site Coordination Meeting on Contaminated Water Issues (10/9/2013)
(only in Japanese)
6-1. Current Status Regarding H4 Area Tank Leakage Detection, Seawater/Groundwater Contamination, Emergency Measures, ALPS, Subdrain System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_03-j.pdf

6-2. Revamping Contaminated Water Management
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_04-j.pdf

6-3. Contaminated Water Issues, Countermeasures and Progress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf

* *If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 03, 2013 10:49 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 4, 2013 at 3 pm Eastern Time
(Next call will be on **Thu, Oct. 10** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Niigata Prefectural Governor's Approval to Apply for Regulatory Standard Compliance Review of Kashiwazaki-Kariwa Units 6 and 7 (9/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230926_5130.html

2. Application for Regulatory Standard Compliance Review of KK Units 6 and 7 (9/27/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230976_5130.html
Attachment (only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/130927j0101.pdf

3. Eighth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (9/26/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_04-j.pdf

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_07-j.pdf

4. Seventh Gov't-TEPCO Meeting on Contaminated Water Issues (9/27/2013)
4-1. Identification of Risks Related to Contaminated Water and Examination of Countermeasures
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130927_001a.pdf

4-2. On-site Progress Related to Contaminated Water Issues
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130927_05-j.pdf

5. Seventh NRA Working Group Meeting on Contaminated Water Issues (9/30/2013)
(only in Japanese)
5-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_01.pdf

5-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_02.pdf

5-3 Glitch Found in Train C of ALPS
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_03.pdf

6. Current Status and Countermeasures Against Contaminated Water Issues (9/30/2013)
6-1. Summary
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_01.pdf

6-2. Fundamental Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_02.pdf

6-3. Emergency Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_03.pdf

6-4. Current Status of H4 Area Tank #5 Leakage
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_04.pdf

6-5. Risk Reduction Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_05.pdf

7. Desalinated Water Leakage from B-Area South Tank (10/3/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131003_01-e.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 19, 2013 11:18 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 20 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 20, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Oct. 4th** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Video Tour of Fukushima Daiichi NPS (9/17/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130917-03e.html

2. Broken Beam found in Units 1&2 Main Exhaust Stack (9/18/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130918_13-j.pdf

3. Sixth NRA Working Group Meeting on Contaminated Water Issues (9/12/2013)
(only in Japanese)
3-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_05r.pdf

3-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_06.pdf

4. Sixth Gov't-TEPCO Meeting on Contaminated Water Issues (9/13/2013)
(only in Japanese)

4-1. Framework for Worldwide Technology Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_04-j.pdf

4-2. Examples of Technologies Subject to Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_05-j.pdf

(Website of International Research Institute for Nuclear Decommissioning)
http://www.irid.or.jp/en/index.html

4-3. Fundamental Countermeasures for Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_07-j.pdf

4-4. Investigation Status on Leakage from Partially-treated Water Tank
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_08-j.pdf

4-5. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_09-j.pdf

4-6. METI Minister Motegi's Presentation on Basic Policy for Decommissioning and Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_13-j.pdf

5. History of Studies Related to Implementation of Underground Barrier (9/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130913_06-j.pdf

6. Overview of Contaminated Water Issues and Countermeasures (9/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130913_01-e.pdf

7. Accumulated Rainwater Discharged from Dam Surrounding Partially-treated Contaminated Water Tanks (9/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/water/13091701-e.html

8. Radioactivity in Water Samples from Various Locations of Water Treatment System (9/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/water_130918-e.pdf

9. H4 Area Tank #5 being Dismantled (9/19/21013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130919_04-j.pdf

10. Prime Minister Abe Visits Fukushima Daiichi (9/19/2013)
(only in Japanese)
http://photo.tepco.co.jp/date/2013/201309-j/130719-02j.html

11. Response to Prime Minister's Requests Regarding Actions Related to Contaminated Water Issues (9/19/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230730_5130.html

12. No Abnormality Found at Fukushima Daiichi Due to M 5.8 Earthquake (9/20/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230749_5130.html

* *If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, September 13, 2013 9:35 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below major points that we discussed today during the call (for those material available only in Japanese):

1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
- The robots utilize ultrasonic probe to measure the water level of the suppression chamber from outside the torus shell.
- Demonstration at Unit 5 is ongoing followed by demonstration at Unit 2 next week.

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
- The cover will have to dismantle to remove rubble from the refueling floor.
- Exhaust system of the Unit 1 reactor building cover will be stopped on Sept. 17th in preparation of dismantling the cover from around March 2014.
- Conservative estimate of incremental dose rate due to removal of the cover is only 5E-5 micro-Sievert per hour at a location 5 km away from Unit 1.

8. Current Status on Contaminated Water Issues (9/9/2013)
(page 11/45) Partially-treated contaminated water that leaked from H 4 Area Tank #5 may have flowed through the above ground draining trench to the sea; however, only minimal amount of Cs-137 was detected from the seawater near the discharge of the trench and gross-beta was below detectable level.
(pages 22/45 to 25/45) Results of sea water contamination survey conducted by NRA showed minimal to no Cs-134/137, tritium and gross-beta at locations within 20-km radius of 1F.

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(pages 3 to 38) Inspection of H 4 Area Tank #5 and integrity assessment of steel tanks.
(page 53) Samples taken from groundwater observation holes E-1 and E-2 showed high concentration of tritium and gross-beta. Tritium concentration in E-1 is rapidly increasing.
(pages 61-64) Samples taken from groundwater of the Bypass System showed no gross-beta and there has been no significant increase in tritium concentration.

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(page 4) Maximum concentration of tritium and gross-beta from various sampling points.
(page 13) No gross-beta has been detected from seawater inside the port of 1F other than in the immediate vicinity of Units1-4 intake structures.
(page 24-27) Highly contaminated water accumulated in Unit 2 branching trench has been transferred and the trench was filled with concrete and mortar. However, water seems to have backflowed from the turbine building into the trench.

On topic 5, there was a question on what kind of level gauge will be use to monitor the water level of flange-type tanks. We will be installing a level gauge on top of the tank and fix it with a flange bolt; the gauge will emit radar towards the water surface and measure the level based on the speed of the wave and time of reflection.

Have a great weekend.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 12, 2013 9:04 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 13, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 20** at 3 pm)

[Major topics]
1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_11-j.pdf

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_08-j.pdf

3. English Website on Contaminated Water Issues and Countermeasures
http://www.tepco.co.jp/en/nu/fukushima-np/water/index-e.html

4. TEPCO President Mr. Hirose's Video Message on Contaminated Water Issues (9/5/2013)
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/130905_01e.wmv

5. Installation of Water Level Monitoring System in Tank Farms (9/6/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130906_09-e.pdf

6. Gross-beta and Tritium Detected from Groundwater Near Leakage from H4 Area Tank (9/11/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130911-3-e.pdf

7. Radioactivity in H4 Area #5 Tank (9/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130912-2-e.pdf

8. Current Status on Contaminated Water Issues (9/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l130909_04-j.pdf

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_05-j.pdf

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_06-j.pdf

11. Mr. Lake Barrett to Advise TEPCO on Contaminated Water Issues (9/10/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230443_5130.html

* *If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Saturday, September 07, 2013 1:27 PM

Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Pleaese find below answers to questions that I received related to the call on Sept. 6th.

(Q-1) What are the composition of contaminated water in the underground trenches near the port?
(A-1) Sampling results as of 7/31/2013 were as follows:

Unit 2 seawater piping trench vertical shaft C (depth 1m)
Cs-134: 1.1E+8 Bq/liter
Cs-137: 2.3E+8 Bq/liter
Gross beta: 3.3E+8 Bq/liter
Tritium: 2.4E+6 Bq/liter

Unit 3 seawater piping trench vertical shaft B (depth 1m)
Cs-134: 1.3E+7 Bq/liter
Cs-137: 2.6E+7 Bq/liter
Gross beta: 3.2E+7 Bq/liter
Tritium: 3.6E+5 Bq/liter

(reference: trench water analysis results (Japanese))
http://www.tepco.co.jp/nu/fukushima-np/f1/smp/2013/images/trench0203_130802-j.pdf

(Q-2) How is the number of thermometers in the primary containment regulated?
(A-2) In page 758/3230 of the "Implementation Plan for Specific Reactor Facility", which is a Tech. Spec.-equivalent licensing document for Fukushima Daiichi NPS, it is stipulated as follows:

"Multiple thermometers shall be installed in the RPV and PCV in the circumferential direction and vertical direction."
"Thermometers deemed disfunctional shall be excluded."
"Installation of new thermometers shall be planned and implemented in anticipation of thermometers becoming disfunctional."

(reference: Implementation Plan for Specific Reactor Facility (Japanese))
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 05, 2013 11:54 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 3 pm Eastern Time
(Next call will be on Fri, Sept. 13 at 3 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)

http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks
6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)

(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Wednesday, November 13, 2013 10:43 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Nov. 14 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Nov. 14, 2013 at 3 pm Eastern Time
(Next call will be on **Tue, Nov. 26** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Torus Investigation Preliminary Results; Identified 2 Leakage Locations (11/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_15-j.pdf
(page 2/7) Schematic of torus and boat used to obtain images and dose data
(page 4/7) Photos of stream of water observed near lower part of a vent pipe
(page 5/7) Photos of a broken sand-cushion drain pipe and water leakage
(page 6/7) Dose rate near boat route was 0.9 to 1.8 Sv/h

2. Urgent Safety Measures at Fukushima Daiichi (11/8/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/131108j0102.pdf
(page 2/34 to 8/34) Improvement of work environment
(page 9/34 to 10/34) Organizational reinforcement
(page 11/34 to 16/34) Measures against rainwater
(page 17/34 to 22/34) Cause and measures for tank water leakage
(page 23/34 to 24/34) Reliability enhancement of ALPS
(page 25/34 to 34/34) Unit 4 fuel removal

3. Third On-Site Coordination Meeting on Contaminated Water Issues (11/11/2013)
(only in Japanese)
3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_03-j.pdf
(page 4/24 to 6/24) Units 2/3 seawater piping trench; water treatment and water shutoff

· (page 18/24 to 24/24) Hot testing results of ALPS

3-2. Issues Management List
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_05-j.pdf
(page 6/73) Schedule for tank water level gauge installation
(page 17/73) Increasing height of weir
(page 47/73) Installation of gutter to tanks to reduce rainwater accumulation inside weir
(page 71/73) Re-routing of drainage ditch and installation of continuous beta-monitor to detect tank leakage

4. Unit 4 Fuel Removal
(only in Japanese)
4-1. NRA Approval and Completion of Unit 4 Fuel Removal Structure (11/12/2013)
http://www.tepco.co.jp/cc/press/2013/1232115_5117.html

4-2. Overview and Schedule of Unit 4 Fuel Removal Process (11/13/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_14-j.pdf
(page 3/7) Fuel removal to be commenced as soon as preparation work is completed
(page 4/7) One out of two on-site fuel transportation casks transported inside Unit 4
(page 6/7) Fuel removal process

5. Site Visit by Lake Barrett, Former NRC/DOE Expert and Advisor to TEPCO on Contaminated Water Issues (11/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131113_09-e.pdf

6. Sixth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (11/14/2013)
6-1. Technical Requirements for Siting of Radioactive Material Analysis and Research Facility
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t131114_01-j.pdf

7. NRA Agrees to Commence Regulatory Standard Compliance Review of Kashiwazaki Kariwa Units 6/7 (11/13/2013)
(YouTube of NRA meeting in Japanese)
http://www.youtube.com/watch?v=6x9SOv8TLfI

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, November 07, 2013 8:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 8 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 8, 2013 at 3 pm Eastern Time
(Next call will be on <u>**Thu, Nov. 14**</u> at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fuel Removal from Unit 4 Spent Fuel Pool
1-1. Status of Unit 4 and Overview of Fuel Removal Procedure (10/30/2013)
http://photo.tepco.co.jp/library/131030_02e/131030_01-e.pdf

1-2. Preparation Work for Fuel Removal (8/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130826_07-e.pdf

1-3. Illustrative Video of Fuel Removal (10/30/2013)
http://photo.tepco.co.jp/en/date/2013/201310-e/131030-02e.html

1-4. Detailed Fuel Removal Procedure--only in Japanese (10/30/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0015_07.pdf
(p. 19/30) Before and after removing debris from top of fuel bundles
(p. 22/30) Safety mechanism of the fuel handling machine
(p. 26/30) Safety mechanism of the overhead crane
(p. 29/30) Dose estimate for hypothetical fuel bundle drop accident
(p. 30/30) Dose estimate for hypothetical cask drop accident

1-5. Q&A Related to Safety of Fuel Removal--only in Japanese (3/1/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0005_03.pdf
(p. 4/33) Dose estimate for hypothetical cask drop accident
(p. 8/33) Cask drop test by CRIEPI
(p. 15/33) Dose estimate for hypothetical fuel bundle drop accident
(p. 31/33) Overview of dry cask storage facility

1-6. Photo of On-site Fuel Transportation Cask
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_05-e.pdf

2. U.S. Energy Secretary Ernest Moniz Visits Fukushimda Daiichi (11/1/2013)
2-1. Comment by TEPCO President Naomi Hirose
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231870_5130.html

2-2. Statement from Secretary Moniz
http://energy.gov/articles/statement-us-secretary-energy-ernest-moniz-regarding-fukushima

2-3. Technical Support Areas by U.S. DOE
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_03-e.pdf

2-4. Photos of Secretary Moniz at Fukushima Daiichi
http://photo.tepco.co.jp/en/date/2013/201311-e/131101-01e.html

3. Nuclear Safety Reform Plan: 2013-Q2 Progress Report (11/1/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231860_5130.html

(Recap from last week due to technical issues related to the url.)

4. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
4-3. Status of Individual Projects (large 8 MB file)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

All the best,
Kenji

---- Original Message ----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 31, 2013 4:02 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 1 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 1, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Nov. 8** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Eighth NRA Working Group Meeting on Contaminated Water Issues (10/15/2013)
(only in Japanese)
1-1. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_01.pdf
(page 4/78) Contamination map (max. observed)
(page 17/78) Cs-134, 137, gross-beta, tritium concentration in sea water
(page 32/78) Detailed monitoring of groundwater
(page 37/78) Highly-contaminated water removal from Units 2/3 seawater piping trenches utilizing ice barrier

1-2. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_02.pdf
(page 12/135) Leakage located by vacuum inspection
(page 15/135) Close-up photo of leak path
(page 65/135) Gross-beta not detected and no increase in tritium from groundwater bypass wells

1-3. Tentative Dischargeable Contamination Level
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_05.pdf

2. Eighth Gov't-TEPCO Meeting on Contaminated Water Issues (10/25/2013)
(only in Japanese)
2-1. Overview of Contaminated Water-Related Risks and Actions to be Summarized by Year-end
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_03-j.pdf

2-2. Seven Hundred Seventy Nine Responses to Request for Information on Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_04-j.pdf

2-3. On-site Efforts
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf
(page 5/94) Tank leakage monitoring
(page 20/94) Rainwater control at tank farms
(page 29/94) Tank replacement plan
(page 50/94) Preventive measures for leak-out of contaminated water due to tsunami
(page 83/94) Restoration of sub-drain system
(page 90/94) Status of sea-side impermeable wall construction

3. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_04-j.pdf
(page 9/40) Core and containment cooling status
(page 19/40) Follow-up investigation on steam observed from Unit 3 reactor building refueling floor

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

4. Licensing Document Amendment in Relation to Fuel Removal Facility for Units 1-4 Approved by NRA (10/30/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/2013/1231805_5117.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, October 09, 2013 10:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Oct. 10 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, **Oct. 10**, 2013 at 3 pm Eastern Time
(No calls for the next 2 weeks due to business trip to Tokyo. Next call will be on **Fri, Nov. 1** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Estimation of Tsunami Arrival Time at 1F Reconfirms Conclusion that On-site Power was Lost Due to Tsunami, Not Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_03-j.pdf

2. Seismic Analysis Shows Units 1&2 Main Exhaust Stack with Broken Beams will Remain Intact with Design-basis Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_06-j.pdf

3. Inadvertent Temporary Shutdown of Power Supply to Unit 1 Core Injection Pump and Immediate Recovery (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_08-j.pdf

4. Leak Paths Identified at Bottom of H4 Area Tank #5 (10/8/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131008_03-j.pdf

5. Water Leak Halted After Pipe Mistakenly Taken Off at Desalination System; Minor Contamination of Workers (10/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131009_04-j.pdf

6. Second On-Site Coordination Meeting on Contaminated Water Issues (10/9/2013)
(only in Japanese)
6-1. Current Status Regarding H4 Area Tank Leakage Detection, Seawater/Groundwater Contamination, Emergency Measures, ALPS, Subdrain System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_03-j.pdf

6-2. Revamping Contaminated Water Management
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_04-j.pdf

6-3. Contaminated Water Issues, Countermeasures and Progress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 03, 2013 10:49 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 4, 2013 at 3 pm Eastern Time
(Next call will be on Thu, Oct. 10 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Niigata Prefectural Governor's Approval to Apply for Regulatory Standard Compliance Review of Kashiwazaki-Kariwa Units 6 and 7 (9/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230926_5130.html

2. Application for Regulatory Standard Compliance Review of KK Units 6 and 7 (9/27/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230976_5130.html
Attachment (only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/130927j0101.pdf

3. Eighth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (9/26/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_04-j.pdf

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_07-j.pdf

4. Seventh Gov't-TEPCO Meeting on Contaminated Water Issues (9/27/2013)
4-1. Identification of Risks Related to Contaminated Water and Examination of Countermeasures
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130927_001a.pdf

4-2. On-site Progress Related to Contaminated Water Issues
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130927_05-j.pdf

5. Seventh NRA Working Group Meeting on Contaminated Water Issues (9/30/2013)
(only in Japanese)
5-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_01.pdf

5-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_02.pdf

5-3 Glitch Found in Train C of ALPS
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_03.pdf

6. Current Status and Countermeasures Against Contaminated Water Issues (9/30/2013)
6-1. Summary
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_01.pdf

6-2. Fundamental Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_02.pdf

6-3. Emergency Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_03.pdf

6-4. Current Status of H4 Area Tank #5 Leakage
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_04.pdf

6-5. Risk Reduction Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_05.pdf

7. Desalinated Water Leakage from B-Area South Tank (10/3/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131003_01-e.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 19, 2013 11:18 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 20 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 20, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri, Oct. 4th** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Video Tour of Fukushima Daiichi NPS (9/17/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130917-03e.html

2. Broken Beam found in Units 1&2 Main Exhaust Stack (9/18/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130918_13-j.pdf

3. Sixth NRA Working Group Meeting on Contaminated Water Issues (9/12/2013)
(only in Japanese)
3-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_05r.pdf

3-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_06.pdf

4. Sixth Gov't-TEPCO Meeting on Contaminated Water Issues (9/13/2013)
(only in Japanese)
4-1. Framework for Worldwide Technology Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_04-j.pdf

4-2. Examples of Technologies Subject to Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_05-j.pdf

(Website of International Research Institute for Nuclear Decommissioning)

http://www.irid.or.jp/en/index.html

4-3. Fundamental Countermeasures for Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_07-j.pdf

4-4. Investigation Status on Leakage from Partially-treated Water Tank
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_08-j.pdf

4-5. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_09-j.pdf

4-6. METI Minister Motegi's Presentation on Basic Policy for Decommissioning and Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_13-j.pdf

5. History of Studies Related to Implementation of Underground Barrier (9/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130913_06-j.pdf

6. Overview of Contaminated Water Issues and Countermeasures (9/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130913_01-e.pdf

7. Accumulated Rainwater Discharged from Dam Surrounding Partially-treated Contaminated Water Tanks (9/17/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/water/13091701-e.html

8. Radioactivity in Water Samples from Various Locations of Water Treatment System (9/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/water_130918-e.pdf

9. H4 Area Tank #5 being Dismantled (9/19/21013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130919_04-j.pdf

10. Prime Minister Abe Visits Fukushima Daiichi (9/19/2013)
(only in Japanese)
http://photo.tepco.co.jp/date/2013/201309-j/130719-02j.html

11. Response to Prime Minister's Requests Regarding Actions Related to Contaminated Water Issues (9/19/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230730_5130.html

12. No Abnormality Found at Fukushima Daiichi Due to M 5.8 Earthquake (9/20/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230749_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, September 13, 2013 9:35 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below major points that we discussed today during the call (for those material available only in Japanese):

1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
- The robots utilize ultrasonic probe to measure the water level of the suppression chamber from outside the torus shell.
- Demonstration at Unit 5 is ongoing followed by demonstration at Unit 2 next week.

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
- The cover will have to dismantle to remove rubble from the refueling floor.
- Exhaust system of the Unit 1 reactor building cover will be stopped on Sept. 17th in preparation of dismantling the cover from around March 2014.
- Conservative estimate of incremental dose rate due to removal of the cover is only 5E-5 micro-Sievert per hour at a location 5 km away from Unit 1.

8. Current Status on Contaminated Water Issues (9/9/2013)
(page 11/45) Partially-treated contaminated water that leaked from H 4 Area Tank #5 may have flowed through the above ground draining trench to the sea; however, only minimal amount of Cs-137 was detected from the seawater near the discharge of the trench and gross-beta was below detectable level.
(pages 22/45 to 25/45) Results of sea water contamination survey conducted by NRA showed minimal to no Cs-134/137, tritium and gross-beta at locations within 20-km radius of 1F.

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(pages 3 to 38) Inspection of H 4 Area Tank #5 and integrity assessment of steel tanks.
(page 53) Samples taken from groundwater observation holes E-1 and E-2 showed high concentration of tritium and gross-beta. Tritium concentration in E-1 is rapidly increasing.
(pages 61-64) Samples taken from groundwater of the Bypass System showed no gross-beta and there has been no significant increase in tritium concentration.

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(page 4) Maximum concentration of tritium and gross-beta from various sampling points.
(page 13) No gross-beta has been detected from seawater inside the port of 1F other than in the immediate vicinity of Units1-4 intake structures.
(page 24-27) Highly contaminated water accumulated in Unit 2 branching trench has been transferred and the trench was filled with concrete and mortar. However, water seems to have backflowed from the turbine building into the trench.

On topic 5, there was a question on what kind of level gauge will be use to monitor the water level of flange-type tanks. We will be installing a level gauge on top of the tank and fix it with a flange bolt; the gauge will emit radar towards the water surface and measure the level based on the speed of the wave and time of reflection.

Have a great weekend.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 12, 2013 9:04 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 13, 2013 at 3 pm Eastern Time
(Next call will be on Fri, Sept. 20 at 3 pm)

[Major topics]
1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)

(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_11-j.pdf

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_08-j.pdf

3. English Website on Contaminated Water Issues and Countermeasures
http://www.tepco.co.jp/en/nu/fukushima-np/water/index-e.html

4. TEPCO President Mr. Hirose's Video Message on Contaminated Water Issues (9/5/2013)
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/130905_01e.wmv

5. Installation of Water Level Monitoring System in Tank Farms (9/6/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130906_09-e.pdf

6. Gross-beta and Tritium Detected from Groundwater Near Leakage from H4 Area Tank (9/11/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130911-3-e.pdf

7. Radioactivity in H4 Area #5 Tank (9/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130912-2-e.pdf

8. Current Status on Contaminated Water Issues (9/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l130909_04-j.pdf

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_05-j.pdf

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_06-j.pdf

11. Mr. Lake Barrett to Advise TEPCO on Contaminated Water Issues (9/10/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230443_5130.html

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Saturday, September 07, 2013 1:27 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Pleaese find below answers to questions that I received related to the call on Sept. 6th.

(Q-1) What are the composition of contaminated water in the underground trenches near the port?
(A-1) Sampling results as of 7/31/2013 were as follows:

Unit 2 seawater piping trench vertical shaft C (depth 1m)
Cs-134: 1.1E+8 Bq/liter
Cs-137: 2.3E+8 Bq/liter
Gross beta: 3.3E+8 Bq/liter

Tritium: 2.4E+6 Bq/liter

Unit 3 seawater piping trench vertical shaft B (depth 1m)
Cs-134: 1.3E+7 Bq/liter
Cs-137: 2.6E+7 Bq/liter
Gross beta: 3.2E+7 Bq/liter
Tritium: 3.6E+5 Bq/liter

(reference: trench water analysis results (Japanese))
http://www.tepco.co.jp/nu/fukushima-np/f1/smp/2013/images/trench0203_130802-j.pdf

(Q-2) How is the number of thermometers in the primary containment regulated?
(A-2) In page 758/3230 of the "Implementation Plan for Specific Reactor Facility", which is a Tech. Spec.-equivalent licensing document for Fukushima Daiichi NPS, it is stipulated as follows:

"Multiple thermometers shall be installed in the RPV and PCV in the circumferential direction and vertical direction."
"Thermometers deemed disfunctional shall be excluded."
"Installation of new thermometers shall be planned and implemented in anticipation of thermometers becoming disfunctional."

(reference: Implementation Plan for Specific Reactor Facility (Japanese))
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 05, 2013 11:51 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 2pm EDT

Nuclear Industry Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 2 pm Eastern Time
(Next call will be on **Fri, Sept. 13** at 2 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks
6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, November 14, 2013 8:38 AM
To: Tateiwa, Kenji
Subject: Additional Info [TEPCO Weekly Fukushima Update Call] Thu, Nov. 14 at 3pm EST

Nuclear Sector Colleagues,

Please find below updated **Topic 1 (in blue)** with the latest information.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, November 13, 2013 10:42 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Nov. 14 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Nov. 14, 2013 at 3 pm Eastern Time
(Next call will be on **Tue, Nov. 26** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Torus Investigation Preliminary Results; Identified 2 Leakage Locations
1-1. Day 1 Results (11/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131113_11-e.pdf
(page 2/7) Schematic of torus and boat used to obtain images and dose data
(page 4/7) Photos of stream of water observed near lower part of a vent pipe
(page 5/7) Photos of a broken sand-cushion drain pipe and water leakage
(page 6/7) Dose rate near boat route was 0.9 to 1.8 Sv/h

(Day 1 Video: 6 minutes 32 seconds)

http://www.tepco.co.jp/tepconews/library/movie-01j.html?bcpid=45149870002&bclid=347241149002&bctid=657022148002
(views) top: above-water image from the boat; bottom-right and left: under-water images from the boat
(0:00-0:31 top) broken sand-cushion drain pipe of vent pipe # 1
(0:32-1:03 top) curved part of sand-cushion ring header between vent pipes # 1 and 2
(1:04-1:43 bottom right) broken sand-cushion ring header between vent pipes # 1 and 2
(1:44-2:44 top) near vent pipe # 4
(2:45-2:59 top) leakage from upper part of vent pipe # 4 (left hand side of vent pipe looking at the S/C from the containment vessel)
(3:00-4:09 top) water surface near lower part of vent pipe # 4 and upper part of vent pipe # 4--location of leakage
(4:10-5:30 top) Trace of leakage on concrete of containment vessel near vent pipe # 4
(5:31-6:32 top) Leakage location near upper part of vent pipe # 4 (right hand side of vent pipe looking at the S/C from the containment vessel)

1-2. Day 2 Results (11/14/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131114_06-j.pdf
(page 5/7) No leakage and damage of sand-cushion drain pipe found in locations # 5-8; dose rate near boat route was 0.9 to 2.0 Sv/h
(page 6/7) Leakage observed from S/C-side of vent pipe # 4
(page 7/7) Damage of sand-cushion drain pipe # 1 and leakage observed; damage of sand-cushion ring header between #1 and 2 observed

2. Urgent Safety Measures at Fukushima Daiichi (11/8/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/131108j0102.pdf
(page 2/34 to 8/34) Improvement of work environment
(page 9/34 to 10/34) Organizational reinforcement
(page 11/34 to 16/34) Measures against rainwater
(page 17/34 to 22/34) Cause and measures for tank water leakage
(page 23/34 to 24/34) Reliability enhancement of ALPS
(page 25/34 to 34/34) Unit 4 fuel removal

3. Third On-Site Coordination Meeting on Contaminated Water Issues (11/11/2013)
(only in Japanese)
3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_03-j.pdf
(page 4/24 to 6/24) Units 2/3 seawater piping trench; water treatment and water shutoff
(page 18/24 to 24/24) Hot testing results of ALPS

3-2. Issues Management List
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_05-j.pdf
(page 6/73) Schedule for tank water level gauge installation
(page 17/73) Increasing height of weir
(page 47/73) Installation of gutter to tanks to reduce rainwater accumulation inside weir
(page 71/73) Re-routing of drainage ditch and installation of continuous beta-monitor to detect tank leakage

4. Unit 4 Fuel Removal
(only in Japanese)
4-1. NRA Approval and Completion of Unit 4 Fuel Removal Structure (11/12/2013)
http://www.tepco.co.jp/cc/press/2013/1232115_5117.html

4-2. Overview and Schedule of Unit 4 Fuel Removal Process (11/13/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_14-j.pdf
(page 3/7) Fuel removal to be commenced as soon as preparation work is completed
(page 4/7) One out of two on-site fuel transportation casks transported inside Unit 4
(page 6/7) Fuel removal process

5. Site Visit by Lake Barrett, Former NRC/DOE Expert and Advisor to TEPCO on Contaminated Water Issues (11/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131113_09-e.pdf

6. Sixth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (11/14/2013)
6-1. Technical Requirements for Siting of Radioactive Material Analysis and Research Facility
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t131114_01-j.pdf

7. NRA Agrees to Commence Regulatory Standard Compliance Review of Kashiwazaki Kariwa Units 6/7 (11/13/2013)
(YouTube of NRA meeting in Japanese)
http://www.youtube.com/watch?v=6x9SOv8TLfI

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
1901 L Street, NW Suite 720
Washington, DC 20036
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, November 07, 2013 8:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 8 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 8, 2013 at 3 pm Eastern Time
(Next call will be on **Thu, Nov. 14** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6) 25057200#

[Major topics]
1. Fuel Removal from Unit 4 Spent Fuel Pool
1-1. Status of Unit 4 and Overview of Fuel Removal Procedure (10/30/2013)
http://photo.tepco.co.jp/library/131030_02e/131030_01-e.pdf

1-2. Preparation Work for Fuel Removal (8/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130826_07-e.pdf

1-3. Illustrative Video of Fuel Removal (10/30/2013)
http://photo.tepco.co.jp/en/date/2013/201310-e/131030-02e.html

1-4. Detailed Fuel Removal Procedure--only in Japanese (10/30/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0015_07.pdf
(p. 19/30) Before and after removing debris from top of fuel bundles
(p. 22/30) Safety mechanism of the fuel handling machine
(p. 26/30) Safety mechanism of the overhead crane
(p. 29/30) Dose estimate for hypothetical fuel bundle drop accident
(p. 30/30) Dose estimate for hypothetical cask drop accident

1-5. Q&A Related to Safety of Fuel Removal--only in Japanese (3/1/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0005_03.pdf
(p. 4/33) Dose estimate for hypothetical cask drop accident
(p. 8/33) Cask drop test by CRIEPI
(p. 15/33) Dose estimate for hypothetical fuel bundle drop accident
(p. 31/33) Overview of dry cask storage facility

1-6. Photo of On-site Fuel Transportation Cask
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_05-e.pdf

2. U.S. Energy Secretary Ernest Moniz Visits Fukushimda Daiichi (11/1/2013)
2-1. Comment by TEPCO President Naomi Hirose
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231870_5130.html

2-2. Statement from Secretary Moniz
http://energy.gov/articles/statement-us-secretary-energy-ernest-moniz-regarding-fukushima

2-3. Technical Support Areas by U.S. DOE
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_03-e.pdf

2-4. Photos of Secretary Moniz at Fukushima Daiichi
http://photo.tepco.co.jp/en/date/2013/201311-e/131101-01e.html

3. Nuclear Safety Reform Plan: 2013-Q2 Progress Report (11/1/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231860_5130.html

(Recap from last week due to technical issues related to the url.)
4. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
4-3. Status of Individual Projects (large 8 MB file)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 31, 2013 4:02 PM

Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 1 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 1, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Nov. 8** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Eighth NRA Working Group Meeting on Contaminated Water Issues (10/15/2013)
(only in Japanese)
1-1. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_01.pdf
(page 4/78) Contamination map (max. observed)
(page 17/78) Cs-134, 137, gross-beta, tritium concentration in sea water
(page 32/78) Detailed monitoring of groundwater
(page 37/78) Highly-contaminated water removal from Units 2/3 seawater piping trenches utilizing ice barrier

1-2. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_02.pdf
(page 12/135) Leakage located by vacuum inspection
(page 15/135) Close-up photo of leak path
(page 65/135) Gross-beta not detected and no increase in tritium from groundwater bypass wells

1-3. Tentative Dischargeable Contamination Level
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_05.pdf

2. Eighth Gov't-TEPCO Meeting on Contaminated Water Issues (10/25/2013)
(only in Japanese)
2-1. Overview of Contaminated Water-Related Risks and Actions to be Summarized by Year-end
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_03-j.pdf

2-2. Seven Hundred Seventy Nine Responses to Request for Information on Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_04-j.pdf

2-3. On-site Efforts
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf
(page 5/94) Tank leakage monitoring
(page 20/94) Rainwater control at tank farms
(page 29/94) Tank replacement plan
(page 50/94) Preventive measures for leak-out of contaminated water due to tsunami
(page 83/94) Restoration of sub-drain system
(page 90/94) Status of sea-side impermeable wall construction

3. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_04-j.pdf
(page 9/40) Core and containment cooling status
(page 19/40) Follow-up investigation on steam observed from Unit 3 reactor building refueling floor

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

4. Licensing Document Amendment in Relation to Fuel Removal Facility for Units 1-4 Approved by NRA (10/30/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/2013/1231805_5117.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, October 09, 2013 10:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Oct. 10 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Oct. 10, 2013 at 3 pm Eastern Time
(No calls for the next 2 weeks due to business trip to Tokyo. Next call will be on **Fri, Nov. 1** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Estimation of Tsunami Arrival Time at 1F Reconfirms Conclusion that On-site Power was Lost Due to Tsunami, Not Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_03-j.pdf

2. Seismic Analysis Shows Units 1&2 Main Exhaust Stack with Broken Beams will Remain Intact with Design-basis Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_06-j.pdf

3. Inadvertent Temporary Shutdown of Power Supply to Unit 1 Core Injection Pump and Immediate Recovery (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_08-j.pdf

4. Leak Paths Identified at Bottom of H4 Area Tank #5 (10/8/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131008_03-j.pdf

5. Water Leak Halted After Pipe Mistakenly Taken Off at Desalination System; Minor Contamination of Workers (10/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131009_04-j.pdf

6. Second On-Site Coordination Meeting on Contaminated Water Issues (10/9/2013)
(only in Japanese)
6-1. Current Status Regarding H4 Area Tank Leakage Detection, Seawater/Groundwater Contamination, Emergency Measures, ALPS, Subdrain System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_03-j.pdf

6-2. Revamping Contaminated Water Management
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_04-j.pdf

6-3. Contaminated Water Issues, Countermeasures and Progress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 03, 2013 10:49 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 4, 2013 at 3 pm Eastern Time
(Next call will be on **Thu, Oct. 10** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Niigata Prefectural Governor's Approval to Apply for Regulatory Standard Compliance Review of Kashiwazaki-Kariwa Units 6 and 7 (9/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230926_5130.html

2. Application for Regulatory Standard Compliance Review of KK Units 6 and 7 (9/27/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230976_5130.html
Attachment (only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/130927j0101.pdf

3. Eighth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (9/26/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_04-j.pdf

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_07-j.pdf

4. Seventh Gov't-TEPCO Meeting on Contaminated Water Issues (9/27/2013)
4-1. Identification of Risks Related to Contaminated Water and Examination of Countermeasures
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130927_001a.pdf

4-2. On-site Progress Related to Contaminated Water Issues
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130927_05-j.pdf

5. Seventh NRA Working Group Meeting on Contaminated Water Issues (9/30/2013)
(only in Japanese)
5-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_01.pdf

5-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_02.pdf

5-3 Glitch Found in Train C of ALPS
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_03.pdf

6. Current Status and Countermeasures Against Contaminated Water Issues (9/30/2013)
6-1. Summary
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_01.pdf

6-2. Fundamental Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_02.pdf

6-3. Emergency Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_03.pdf

6-4. Current Status of H4 Area Tank #5 Leakage
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_04.pdf

6-5. Risk Reduction Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_05.pdf

7. Desalinated Water Leakage from B-Area South Tank (10/3/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131003_01-e.pdf

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 19, 2013 11:18 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 20 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 20, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Fri. Oct. 4th** at 3 pm)

[call-in information] (Please record vour name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Video Tour of Fukushima Daiichi NPS (9/17/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130917-03e.html

2. Broken Beam found in Units 1&2 Main Exhaust Stack (9/18/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130918_13-j.pdf

3. Sixth NRA Working Group Meeting on Contaminated Water Issues (9/12/2013)
(only in Japanese)
3-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_05r.pdf

3-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0006_06.pdf

4. Sixth Gov't-TEPCO Meeting on Contaminated Water Issues (9/13/2013)
(only in Japanese)
4-1. Framework for Worldwide Technology Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_04-j.pdf

4-2. Examples of Technologies Subject to Solicitation Through IRID
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_05-j.pdf

(Website of International Research Institute for Nuclear Decommissioning)
http://www.irid.or.jp/en/index.html

4-3. Fundamental Countermeasures for Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_07-j.pdf

4-4. Investigation Status on Leakage from Partially-treated Water Tank
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_08-j.pdf

4-5. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_09-j.pdf

4-6. METI Minister Motegi's Presentation on Basic Policy for Decommissioning and Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130913_13-j.pdf

5. History of Studies Related to Implementation of Underground Barrier (9/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130913_06-j.pdf

6. Overview of Contaminated Water Issues and Countermeasures (9/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130913_01-e.pdf

7. Accumulated Rainwater Discharged from Dam Surrounding Partially-treated Contaminated Water Tanks (9/17/2013)

http://www.tepco.co.jp/en/nu/fukushima-np/water/13091701-e.html

8. Radioactivity in Water Samples from Various Locations of Water Treatment System (9/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/water_130918-e.pdf

9. H4 Area Tank #5 being Dismantled (9/19/21013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130919_04-j.pdf

10. Prime Minister Abe Visits Fukushima Daiichi (9/19/2013)
(only in Japanese)
http://photo.tepco.co.jp/date/2013/201309-j/130719-02j.html

11. Response to Prime Minister's Requests Regarding Actions Related to Contaminated Water Issues (9/19/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230730_5130.html

12. No Abnormality Found at Fukushima Daiichi Due to M 5.8 Earthquake (9/20/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230749_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Friday, September 13, 2013 9:35 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below major points that we discussed today during the call (for those material available only in Japanese):

1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
- The robots utilize ultrasonic probe to measure the water level of the suppression chamber from outside the torus shell.
- Demonstration at Unit 5 is ongoing followed by demonstration at Unit 2 next week.

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
- The cover will have to dismantle to remove rubble from the refueling floor.
- Exhaust system of the Unit 1 reactor building cover will be stopped on Sept. 17th in preparation of dismantling the cover from around March 2014.
- Conservative estimate of incremental dose rate due to removal of the cover is only 5E-5 micro-Sievert per hour at a location 5 km away from Unit 1.

8. Current Status on Contaminated Water Issues (9/9/2013)
(page 11/45) Partially-treated contaminated water that leaked from H 4 Area Tank #5 may have flowed through the above ground draining trench to the sea; however, only minimal amount of Cs-137 was detected from the seawater near the discharge of the trench and gross-beta was below detectable level.
(pages 22/45 to 25/45) Results of sea water contamination survey conducted by NRA showed minimal to no Cs-134/137, tritium and gross-beta at locations within 20-km radius of 1F.

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(pages 3 to 38) Inspection of H 4 Area Tank #5 and integrity assessment of steel tanks.
(page 53) Samples taken from groundwater observation holes E-1 and E-2 showed high concentration of tritium and gross-beta. Tritium concentration in E-1 is rapidly increasing.
(pages 61-64) Samples taken from groundwater of the Bypass System showed no gross-beta and there has been no significant increase in tritium concentration.

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(page 4) Maximum concentration of tritium and gross-beta from various sampling points.
(page 13) No gross-beta has been detected from seawater inside the port of 1F other than in the immediate vicinity of Units1-4 intake structures.
(page 24-27) Highly contaminated water accumulated in Unit 2 branching trench has been transferred and the trench was filled with concrete and mortar. However, water seems to have backflowed from the turbine building into the trench.

On topic 5, there was a question on what kind of level gauge will be use to monitor the water level of flange-type tanks. We will be installing a level gauge on top of the tank and fix it with a flange bolt; the gauge will emit radar towards the water surface and measure the level based on the speed of the wave and time of reflection.

Have a great weekend.

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 12, 2013 9:04 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 13 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 13, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Sept. 20** at 3 pm)

[Major topics]
1. Development and Demonstration of Suppression Chamber Water Level Measurement Robot (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_11-j.pdf

2. Preparation to Dismantle Unit 1 Reactor Building Cover (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_08-j.pdf

3. English Website on Contaminated Water Issues and Countermeasures
http://www.tepco.co.jp/en/nu/fukushima-np/water/index-e.html

4. TEPCO President Mr. Hirose's Video Message on Contaminated Water Issues (9/5/2013)
http://tepco.webcdn.stream.ne.jp/www11/tepco/download/130905_01e.wmv

5. Installation of Water Level Monitoring System in Tank Farms (9/6/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130906_09-e.pdf

6. Gross-beta and Tritium Detected from Groundwater Near Leakage from H4 Area Tank (9/11/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130911-3-e.pdf

7. Radioactivity in H4 Area #5 Tank (9/12/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130912-2-e.pdf

8. Current Status on Contaminated Water Issues (9/9/2013)

(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l130909_04-j.pdf

9. Investigation of Partially-Treated Contaminated Water Leakage from H4 Area Tank (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_05-j.pdf

10. Status of Groundwater Contamination Near Bank Protection and Countermeasures (9/12/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130912_06-j.pdf

11. Mr. Lake Barrett to Advise TEPCO on Contaminated Water Issues (9/10/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230443_5130.html

All the best,
Kenji
----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Saturday, September 07, 2013 1:27 PM
Subject: Follow-up [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 3pm EDT

Nuclear Sector Colleagues,

Pleaese find below answers to questions that I received related to the call on Sept. 6th.

(Q-1) What are the composition of contaminated water in the underground trenches near the port?
(A-1) Sampling results as of 7/31/2013 were as follows:

Unit 2 seawater piping trench vertical shaft C (depth 1m)
Cs-134: 1.1E+8 Bq/liter
Cs-137: 2.3E+8 Bq/liter
Gross beta: 3.3E+8 Bq/liter
Tritium: 2.4E+6 Bq/liter

Unit 3 seawater piping trench vertical shaft B (depth 1m)
Cs-134: 1.3E+7 Bq/liter
Cs-137: 2.6E+7 Bq/liter
Gross beta: 3.2E+7 Bq/liter
Tritium: 3.6E+5 Bq/liter

(reference: trench water analysis results (Japanese))
http://www.tepco.co.jp/nu/fukushima-np/f1/smp/2013/images/trench0203_130802-j.pdf

(Q-2) How is the number of thermometers in the primary containment regulated?
(A-2) In page 758/3230 of the "Implementation Plan for Specific Reactor Facility", which is a Tech. Spec.-equivalent licensing document for Fukushima Daiichi NPS, it is stipulated as follows:

"Multiple thermometers shall be installed in the RPV and PCV in the circumferential direction and vertical direction."
"Thermometers deemed disfunctional shall be excluded."
"Installation of new thermometers shall be planned and implemented in anticipation of thermometers becoming disfunctional."

(reference: Implementation Plan for Specific Reactor Facility (Japanese))
http://www.tepco.co.jp/cc/press/betu13_j/images/130812j0201.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, September 05, 2013 11:51 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Sept. 6 at 2pm EDT

Nuclear Industry Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Sept. 6, 2013 at 2 pm Eastern Time
(Next call will be on **Fri, Sept. 13** at 2 pm)

[Major topics]
1. Monthly Reliability Report on Thermometers Installed in Units 1-3 PCV (9/2/2013)
(attachment is only in Japanese)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230239_5130.html

2. Jib Mast of a Large Crane Used at Unit 3 Bent (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_06-j.pdf

3. Groundwater Inflow Location Identified at Unit 1 Turbine Building and HTI Building (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130904_07-e.pdf

Video Clip (Turbine Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448354002

Video Clip (HTI Building)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=590448355002

4. Highly Contaminated Water Storage and Treatment Status (9/4/2013)
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/130904e0301.pdf

5. Contaminated Groundwater Issues Near the Port
5-1. Status on Contaminated Groundwater Issues and Estimate of Sr/Cs Leakage into Sea (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_01.pdf

5-2. Latest and Highest Results of Groundwater Contamination Near the Port (9/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/2tb-east_13090403-e.pdf

6. Partially-Treated Contaminated Water Leakage from Tanks
6-1. Status on Partially-Treated Contaminated Water Leakage from H4 Area Tank (8/30/2013)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0005_02.pdf

6-2. The 1,800 mSv/h Dose Rate Observed Near Tank was Mostly Beta-Radiation (9/1/2013)
http://www.tepco.co.jp/en/announcements/2013/1230191_5502.html

6-3. H3, 4, 5 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_04-e.pdf

6-4. H3 Area Tank Patrol Results (9/2/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130902_05-e.pdf

6-5. Video Clip of Tank Patrol (9/4/2013)
http://photo.tepco.co.jp/en/date/2013/201309-e/130904-01e.html

6-6. Contamination Survey Results Related to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2013/images/south_discharge_130905-1-e.pdf

6-7. Possible Groundwater Contamination Due to H4 Area Tank Leakage (9/5/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230333_5130.html

6-8. Effective Shielding of Beta-Radiation at H3 Area Tank (9/5/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130905_01-j.pdf

7. Presentations on Contaminated Water Issues to the Local Fisheries Association (9/3/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_04-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_03-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_01-j.pdf
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_130903_02-j.pdf

8. Government Announces "Basic Policy on Contaminated Water Issues" (9/3/2013)
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130904_01a.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Monday, November 25, 2013 10:05 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Tue, Nov. 26 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Tue, Nov. 26, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Dec. 6** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. First Fuel Transportation Successfully Completed from Unit 4 SFP to Common SFP (11/21/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1232330_5130.html

(photos/videos)
Day 1 (11/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131118_03-e.pdf
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=662021536002

Day 3 (11/20/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=663150805002

Day 4 (11/21/2013)
http://photo.tepco.co.jp/en/date/2013/201311-e/131121-01e.html
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=664255047002

Day 5 (11/22/2013)
http://photo.tepco.co.jp/en/date/2013/201311-e/131122-01e.html
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=665354868002

2. Effectiveness Confirmed for Anti-Corrosion Measures for ALPS (11/15/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131115_03-j.pdf

(page 2/10) Inspection points indicated in red circle
(page 5/10 to 7/10) Effectiveness confirmed
(page 8/10) Corrosion found prior to implementing anti-corrosion measures

3. Ninth Gov't-TEPCO Meeting on Contaminated Water Issues (11/15/2013)
(only in Japanese)
3-1. Update from Subgroups
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131115_04-j.pdf
(page 1/114 to 94/114) Subgroup 1: Groundwater and rainwater analysis and visualization
(page 95/114 to 114/114) Subgroup 2: Risk analysis related to contaminated water

3-2. Proposals in Response to Request for Information Regarding Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131115_05-j.pdf
- 779 proposals were examined by expert group and categorized based on their relevance, etc.

3-3. Report from TEPCO
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131115_06-j.pdf
(page 1/4 to 3/4) Status of sea-side impermeable wall installation
(page 4/4) Water quality investigation of lower-permeable layer near Unit 3 intake structure

4. Water Quality Investigation of Sub-drain Pits (11/25/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131125_05-j.pdf
(page 3/4) Map of Units 1-4 and location of sub-drain pits.

5. IAEA to Conduct 2nd Review of Roadmap towards Decommissioning (11/21/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1232331_5130.html

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
(New address from 11/18/2013)
2121 K Street NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)
tateiwa.kenji@tepco.co.jp

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, November 13, 2013 10:42 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Nov. 14 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Nov. 14, 2013 at 3 pm Eastern Time
(Next call will be on **Tue, Nov. 26** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Torus Investigation Preliminary Results; Identified 2 Leakage Locations (11/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_15-j.pdf
(page 2/7) Schematic of torus and boat used to obtain images and dose data
(page 4/7) Photos of stream of water observed near lower part of a vent pipe
(page 5/7) Photos of a broken sand-cushion drain pipe and water leakage
(page 6/7) Dose rate near boat route was 0.9 to 1.8 Sv/h

2. Urgent Safety Measures at Fukushima Daiichi (11/8/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/131108j0102.pdf
(page 2/34 to 8/34) Improvement of work environment
(page 9/34 to 10/34) Organizational reinforcement
(page 11/34 to 16/34) Measures against rainwater
(page 17/34 to 22/34) Cause and measures for tank water leakage
(page 23/34 to 24/34) Reliability enhancement of ALPS
(page 25/34 to 34/34) Unit 4 fuel removal

3. Third On-Site Coordination Meeting on Contaminated Water Issues (11/11/2013)
(only in Japanese)
3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_03-j.pdf
(page 4/24 to 6/24) Units 2/3 seawater piping trench; water treatment and water shutoff
(page 18/24 to 24/24) Hot testing results of ALPS

3-2. Issues Management List
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_05-j.pdf
(page 6/73) Schedule for tank water level gauge installation
(page 17/73) Increasing height of weir
(page 47/73) Installation of gutter to tanks to reduce rainwater accumulation inside weir
(page 71/73) Re-routing of drainage ditch and installation of continuous beta-monitor to detect tank leakage

4. Unit 4 Fuel Removal
(only in Japanese)
4-1. NRA Approval and Completion of Unit 4 Fuel Removal Structure (11/12/2013)
http://www.tepco.co.jp/cc/press/2013/1232115_5117.html

4-2. Overview and Schedule of Unit 4 Fuel Removal Process (11/13/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_14-j.pdf
(page 3/7) Fuel removal to be commenced as soon as preparation work is completed
(page 4/7) One out of two on-site fuel transportation casks transported inside Unit 4
(page 6/7) Fuel removal process

5. Site Visit by Lake Barrett, Former NRC/DOE Expert and Advisor to TEPCO on Contaminated Water Issues (11/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131113_09-e.pdf

6. Sixth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (11/14/2013)
6-1. Technical Requirements for Siting of Radioactive Material Analysis and Research Facility
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t131114_01-j.pdf

7. NRA Agrees to Commence Regulatory Standard Compliance Review of Kashiwazaki Kariwa Units 6/7 (11/13/2013)
(YouTube of NRA meeting in Japanese)
http://www.youtube.com/watch?v=6x9SOv8TLfI

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, November 07, 2013 8:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 8 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 8, 2013 at 3 pm Eastern Time
(Next call will be on **Thu, Nov. 14** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fuel Removal from Unit 4 Spent Fuel Pool
1-1. Status of Unit 4 and Overview of Fuel Removal Procedure (10/30/2013)
http://photo.tepco.co.jp/library/131030_02e/131030_01-e.pdf

1-2. Preparation Work for Fuel Removal (8/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130826_07-e.pdf

1-3. Illustrative Video of Fuel Removal (10/30/2013)
http://photo.tepco.co.jp/en/date/2013/201310-e/131030-02e.html

1-4. Detailed Fuel Removal Procedure--only in Japanese (10/30/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0015_07.pdf
(p. 19/30) Before and after removing debris from top of fuel bundles
(p. 22/30) Safety mechanism of the fuel handling machine
(p. 26/30) Safety mechanism of the overhead crane
(p. 29/30) Dose estimate for hypothetical fuel bundle drop accident
(p. 30/30) Dose estimate for hypothetical cask drop accident

1-5. Q&A Related to Safety of Fuel Removal--only in Japanese (3/1/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0005_03.pdf
(p. 4/33) Dose estimate for hypothetical cask drop accident
(p. 8/33) Cask drop test by CRIEPI
(p. 15/33) Dose estimate for hypothetical fuel bundle drop accident
(p. 31/33) Overview of dry cask storage facility

1-6. Photo of On-site Fuel Transportation Cask
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_05-e.pdf

2. U.S. Energy Secretary Ernest Moniz Visits Fukushimda Daiichi (11/1/2013)
2-1. Comment by TEPCO President Naomi Hirose

http://www.tepco.co.jp/en/press/corp-com/release/2013/1231870_5130.html

2-2. Statement from Secretary Moniz
http://energy.gov/articles/statement-us-secretary-energy-ernest-moniz-regarding-fukushima

2-3. Technical Support Areas by U.S. DOE
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_03-e.pdf

2-4. Photos of Secretary Moniz at Fukushima Daiichi
http://photo.tepco.co.jp/en/date/2013/201311-e/131101-01e.html

3. Nuclear Safety Reform Plan: 2013-Q2 Progress Report (11/1/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231860_5130.html

(Recap from last week due to technical issues related to the url.)
4. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
4-3. Status of Individual Projects (large 8 MB file)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 31, 2013 4:02 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 1 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 1, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Nov. 8** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Eighth NRA Working Group Meeting on Contaminated Water Issues (10/15/2013)
(only in Japanese)
1-1. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_01.pdf
(page 4/78) Contamination map (max. observed)
(page 17/78) Cs-134, 137, gross-beta, tritium concentration in sea water

(page 32/78) Detailed monitoring of groundwater
(page 37/78) Highly-contaminated water removal from Units 2/3 seawater piping trenches utilizing ice barrier

1-2. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_02.pdf
(page 12/135) Leakage located by vacuum inspection
(page 15/135) Close-up photo of leak path
(page 65/135) Gross-beta not detected and no increase in tritium from groundwater bypass wells

1-3. Tentative Dischargeable Contamination Level
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_05.pdf

2. Eighth Gov't-TEPCO Meeting on Contaminated Water Issues (10/25/2013)
(only in Japanese)
2-1. Overview of Contaminated Water-Related Risks and Actions to be Summarized by Year-end
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_03-j.pdf

2-2. Seven Hundred Seventy Nine Responses to Request for Information on Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_04-j.pdf

2-3. On-site Efforts
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf
(page 5/94) Tank leakage monitoring
(page 20/94) Rainwater control at tank farms
(page 29/94) Tank replacement plan
(page 50/94) Preventive measures for leak-out of contaminated water due to tsunami
(page 83/94) Restoration of sub-drain system
(page 90/94) Status of sea-side impermeable wall construction

3. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_04-j.pdf
(page 9/40) Core and containment cooling status
(page 19/40) Follow-up investigation on steam observed from Unit 3 reactor building refueling floor

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

4. Licensing Document Amendment in Relation to Fuel Removal Facility for Units 1-4 Approved by NRA (10/30/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/2013/1231805_5117.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, October 09, 2013 10:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Oct. 10 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Oct. 10, 2013 at 3 pm Eastern Time
(No calls for the next 2 weeks due to business trip to Tokyo. Next call will be on **Fri, Nov. 1** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Estimation of Tsunami Arrival Time at 1F Reconfirms Conclusion that On-site Power was Lost Due to Tsunami, Not Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_03-j.pdf

2. Seismic Analysis Shows Units 1&2 Main Exhaust Stack with Broken Beams will Remain Intact with Design-basis Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_06-j.pdf

3. Inadvertent Temporary Shutdown of Power Supply to Unit 1 Core Injection Pump and Immediate Recovery (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_08-j.pdf

4. Leak Paths Identified at Bottom of H4 Area Tank #5 (10/8/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131008_03-j.pdf

5. Water Leak Halted After Pipe Mistakenly Taken Off at Desalination System; Minor Contamination of Workers (10/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131009_04-j.pdf

6. Second On-Site Coordination Meeting on Contaminated Water Issues (10/9/2013)
(only in Japanese)
6-1. Current Status Regarding H4 Area Tank Leakage Detection, Seawater/Groundwater Contamination, Emergency Measures, ALPS, Subdrain System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_03-j.pdf

6-2. Revamping Contaminated Water Management
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_04-j.pdf

6-3. Contaminated Water Issues, Countermeasures and Progress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 03, 2013 10:49 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 4, 2013 at 3 pm Eastern Time
(Next call will be on **Thu, Oct. 10** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Niigata Prefectural Governor's Approval to Apply for Regulatory Standard Compliance Review of Kashiwazaki-Kariwa Units 6 and 7 (9/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230926_5130.html

2. Application for Regulatory Standard Compliance Review of KK Units 6 and 7 (9/27/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230976_5130.html
Attachment (only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/130927j0101.pdf

3. Eighth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (9/26/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_04-j.pdf

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_07-j.pdf

4. Seventh Gov't-TEPCO Meeting on Contaminated Water Issues (9/27/2013)
4-1. Identification of Risks Related to Contaminated Water and Examination of Countermeasures
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130927_001a.pdf

4-2. On-site Progress Related to Contaminated Water Issues
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130927_05-j.pdf

5. Seventh NRA Working Group Meeting on Contaminated Water Issues (9/30/2013)
(only in Japanese)
5-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_01.pdf

5-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_02.pdf

5-3 Glitch Found in Train C of ALPS
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_03.pdf

6. Current Status and Countermeasures Against Contaminated Water Issues (9/30/2013)
6-1. Summary
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_01.pdf

6-2. Fundamental Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_02.pdf

6-3. Emergency Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_03.pdf

6-4. Current Status of H4 Area Tank #5 Leakage
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_04.pdf

6-5. Risk Reduction Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_05.pdf

7. Desalinated Water Leakage from B-Area South Tank (10/3/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131003_01-e.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Wednesday, December 18, 2013 11:01 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Dec. 19 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Dec. 19, 2013 at 3 pm Eastern Time
(No call for the next 2 weeks due to holiday season. Next call will be on **Fri, Jan. 10, 2014** at 3 pm. However, feel free to contact me should you have any questions at any time.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Visual Inspection of Unit-1 Reactor Building Frame (12/6/2013)
1-1. Presentation
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131206_07-e.pdf

1-2. Video (7 minutes)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=686304197002

2. Geometry Data Inside Units-1/2 Reactor Buildings to be Obtained by 3-D Laser Scanner and Robots (12/6/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131206_08-j.pdf

3. Max. Estimated Dose Rate of 25 Sv/h at Units-1/2 SGTS Piping and Main Exhaust Stack Connection (12/6/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131206_04-j.pdf

4. Progress Status of On-site Decontamination and Dose Reduction (12/11/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131211_04-j.pdf

5. Unit 1 Reactor Building Contamination Condition to be Examined by Gamma Camera and Robots (12/18/2013)
(only in Japanese)

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131218_08-j.pdf

6. Examination Plan for Deformed (cause of which is unrelated to the accident) Fuel Bundle Stored in Unit 4 Spent Fuel Pool (12/18/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131218_07-j.pdf

7. First Progress Report of Follow-up Study on Fukushima Daiichi Accident Unresolved Issues (12/13/2013)
(only in Japanese)

7-1. Summary (39 pages, 1.3 MB file)
http://www.tepco.co.jp/cc/press/betu13_j/images/131213j0101.pdf
(page 7/39) Fifty two unresolved issues identified; 10 issues resolved.
(page 8/39) Five out of the 10 resolved issues important to understand accident progression are to be discussed in detail.
(page 14 to 19/39) Ultimate heat sink and emergency power were lost due to tsunami; not due to earthquake.
(page 20 to 24/39) Water spillage in Unit-1 reactor building 4th floor was due to sloshing of spent fuel pool; not due to rupture of isolation condenser piping.
(page 25 to 28/39) Bypass flow of water injected by fire trucks led to insufficient core cooling.
(page 29 to 32/39) Unit-3 core cooling most likely stopped prior to manual shutdown of HPCI.
(page33 to 37/39) Rapid depressurization of Unit-3 reactor caused by ADS actuation; not by RPV breach.
(page38/39) Degree of core melt at Unit-3 considered to be more severe than prior estimate.
(page39/39) Ten issues with high priority to be tackled next.

7-2. Full Report (327 pages, 15 MB file)
http://www.tepco.co.jp/cc/press/betu13_j/images/131213j0102.pdf

8. Eleventh Gov't Meeting on Contaminated Water Issues (12/6/2013)

8-1. Preventive and Multi-layered Measures for Contaminated Water Issues (summary)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131210_03-j.pdf

8-2. Preventive and Multi-layered Measures for Contaminated Water Issues (full report: 105 MB file)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131210_04-j.pdf

8-3. Groundwater Flow Model by JAEA
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131210_05-j.pdf

8-4. IAEA Press Release on Completion of Peer Review of Decommissioning Plan
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131210_06-j.pdf

8-5. IAEA Preliminary Summary Report on Peer Review of Decommissioning Plan
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131210_07-j.pdf

8-6. Establishment of Task Force on Tritiated Water
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131210_09-j.pdf

9. Fourth On-Site Coordination Meeting on Contaminated Water Issues (12/12/2013)
(only in Japanese)

9-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131212_03-j.pdf

9-2. Status of Measures on Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131212_05-j.pdf

9-3. Water Leakage Monitoring by Radiation Detection by Plastic Scintillation Fiber
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131212_06-j.pdf

9-4. Reinforcing Project Management Capability
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t131212_07-j.pdf

10. Request For Information on Innovative Approach for Fuel Debris Retrieval (12/9/2013)
http://irid.or.jp/fd/?page_id=80
10-1. Overview of RFI
http://irid.or.jp/debris/RFI_AFDR.pdf

10-2. Overview of Decommissioning Roadmap
http://irid.or.jp/debris/TA_RFI2.pdf

10-3. Topics of Interest for RFI
http://irid.or.jp/debris/TA_RFI1.pdf

11. TEPCO Makes Formal Decision to Decommission Fukushima Daiichi Units 5 and 6 (12/18/2013)
11-1. Press Release
http://www.tepco.co.jp/en/press/corp-com/release/2013/1233020_5130.html

11-2. Future Utilization of 1F-5/6
http://www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/131218e0201.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

Happy holidays to you all.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, December 05, 2013 11:50 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Dec. 6 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Dec. 6, 2013 at 3 pm Eastern Time
(No call next week. Next call will be on **Thu, Dec. 19** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 Reactor Bldg. Decontamination by Remote-Controlled Device (11/27/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131127_10-e.pdf

2. Tenth Working-level Meeting of Council on Promotion of 1F Decommissioning (11/28/2013)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131128_04-j.pdf
(page 2/15-4/15) RPV and D/W Temperatures of Units 1, 2, and 3
(page 5/15) Water Storage Status
(page 9/15-15/15) False Alarm of Transformer Possibly Due to Small Animal Urination

2-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131128_05-j.pdf
(page 10/15) Fuel Removal from SFPs
(page 11/15) Unit 1 Containment Investigation
(page 12/15) Unit 2 Containment Investigation
(page 13/15) Unit 3 Containment Investigation

2-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131128_06-j.pdf
(page 3/242-14/242) Study on Reduction of Core Injection Rate
(page 25/242-34/242) Metal Analysis of Unit 2 TIP Guide Tube
(page 61/242-71/242) Processing Contaminated Water in Units 2 and 3 Seawater Piping Trench
(page 185/242-199/242) Large Rubble Removal from Unit 3 SFP
(page 207/242-217/242) Unit 1 Torus Investigation Results near Lower Part of Vent Pipe
(page 218/242-224/242) Air Coolability of Fuel Debris

2-4. R&D Activities of International Research Institute for Nuclear Decommissioning (IRID)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131128_07-j.pdf

3. Unit 4 Fuel Removal Video (12/2/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=674670598002

4. Tenth Gov't Meeting on Contaminated Water Issues (12/3/2013)
4-1. Preventive and Multi-layered Measures for Contaminated Water Issues (English Summary)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131203_04-j.pdf

4-2. Preventive and Multi-layered Measures for Contaminated Water Issues (Full Document)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131203_06-j.pdf

5. Radioactivity in Fish Caught within 20-km Radius of 1F (12/4/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131204_05-e.pdf

6. IAEA Review of 1F Decommissioning Plan
6-1. Photos from Visit to 1F (11/27/2013)
http://photo.tepco.co.jp/en/date/2013/201311-e/131127-02e.html

6-2. Preliminary Summary Report (12/4/2013)
http://www.iaea.org/newscenter/news/2013/fukushima-expert-review3.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Monday, November 25, 2013 10:04 PM
Subject: [TEPCO Weekly Fukushima Update Call] Tue, Nov. 26 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Tue, Nov. 26, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Dec. 6** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6) -

[Major topics]
1. First Fuel Transportation Successfully Completed from Unit 4 SFP to Common SFP (11/21/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1232330_5130.html

(photos/videos)
Day 1 (11/18/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131118_03-e.pdf
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=662021536002

Day 3 (11/20/2013)
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=663150805002

Day 4 (11/21/2013)
http://photo.tepco.co.jp/en/date/2013/201311-e/131121-01e.html
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=664255047002

Day 5 (11/22/2013)
http://photo.tepco.co.jp/en/date/2013/201311-e/131122-01e.html
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=665354868002

2. Effectiveness Confirmed for Anti-Corrosion Measures for ALPS (11/15/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131115_03-j.pdf
(page 2/10) Inspection points indicated in red circle
(page 5/10 to 7/10) Effectiveness confirmed
(page 8/10) Corrosion found prior to implementing anti-corrosion measures

3. Ninth Gov't-TEPCO Meeting on Contaminated Water Issues (11/15/2013)
(only in Japanese)
3-1. Update from Subgroups
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131115_04-j.pdf
(page 1/114 to 94/114) Subgroup 1: Groundwater and rainwater analysis and visualization
(page 95/114 to 114/114) Subgroup 2: Risk analysis related to contaminated water

3-2. Proposals in Response to Request for Information Regarding Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131115_05-j.pdf
- 779 proposals were examined by expert group and categorized based on their relevance, etc.

3-3. Report from TEPCO
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131115_06-j.pdf
(page 1/4 to 3/4) Status of sea-side impermeable wall installation
(page 4/4) Water quality investigation of lower-permeable layer near Unit 3 intake structure

4. Water Quality Investigation of Sub-drain Pits (11/25/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131125_05-j.pdf

(page 3/4) Map of Units 1-4 and location of sub-drain pits.

5. IAEA to Conduct 2nd Review of Roadmap towards Decommissioning (11/21/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1232331_5130.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, November 13, 2013 10:42 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Nov. 14 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Nov. 14, 2013 at 3 pm Eastern Time
(Next call will be on **Tue, Nov. 26** at 3 pm--pardon the irregular schedule)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Torus Investigation Preliminary Results; Identified 2 Leakage Locations (11/13/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_15-j.pdf
(page 2/7) Schematic of torus and boat used to obtain images and dose data
(page 4/7) Photos of stream of water observed near lower part of a vent pipe
(page 5/7) Photos of a broken sand-cushion drain pipe and water leakage
(page 6/7) Dose rate near boat route was 0.9 to 1.8 Sv/h

2. Urgent Safety Measures at Fukushima Daiichi (11/8/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/131108j0102.pdf
(page 2/34 to 8/34) Improvement of work environment
(page 9/34 to 10/34) Organizational reinforcement
(page 11/34 to 16/34) Measures against rainwater
(page 17/34 to 22/34) Cause and measures for tank water leakage
(page 23/34 to 24/34) Reliability enhancement of ALPS
(page 25/34 to 34/34) Unit 4 fuel removal

3. Third On-Site Coordination Meeting on Contaminated Water Issues (11/11/2013)
(only in Japanese)
3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_03-j.pdf
(page 4/24 to 6/24) Units 2/3 seawater piping trench; water treatment and water shutoff
(page 18/24 to 24/24) Hot testing results of ALPS

3-2. Issues Management List
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131111_05-j.pdf
(page 6/73) Schedule for tank water level gauge installation
(page 17/73) Increasing height of weir
(page 47/73) Installation of gutter to tanks to reduce rainwater accumulation inside weir

(page 71/73) Re-routing of drainage ditch and installation of continuous beta-monitor to detect tank leakage

4. Unit 4 Fuel Removal
(only in Japanese)
4-1. NRA Approval and Completion of Unit 4 Fuel Removal Structure (11/12/2013)
http://www.tepco.co.jp/cc/press/2013/1232115_5117.html

4-2. Overview and Schedule of Unit 4 Fuel Removal Process (11/13/2013)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131113_14-j.pdf
(page 3/7) Fuel removal to be commenced as soon as preparation work is completed
(page 4/7) One out of two on-site fuel transportation casks transported inside Unit 4
(page 6/7) Fuel removal process

5. Site Visit by Lake Barrett, Former NRC/DOE Expert and Advisor to TEPCO on Contaminated Water Issues (11/13/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131113_09-e.pdf

6. Sixth Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (11/14/2013)
6-1. Technical Requirements for Siting of Radioactive Material Analysis and Research Facility
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t131114_01-j.pdf

7. NRA Agrees to Commence Regulatory Standard Compliance Review of Kashiwazaki Kariwa Units 6/7 (11/13/2013)
(YouTube of NRA meeting in Japanese)
http://www.youtube.com/watch?v=6x9SOv8TLfI

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, November 07, 2013 8:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 8 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 8, 2013 at 3 pm Eastern Time
(Next call will be on Thu, Nov. 14 at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Fuel Removal from Unit 4 Spent Fuel Pool
1-1. Status of Unit 4 and Overview of Fuel Removal Procedure (10/30/2013)
http://photo.tepco.co.jp/library/131030_02e/131030_01-e.pdf

1-2. Preparation Work for Fuel Removal (8/26/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_130826_07-e.pdf

1-3. Illustrative Video of Fuel Removal (10/30/2013)
http://photo.tepco.co.jp/en/date/2013/201310-e/131030-02e.html

1-4. Detailed Fuel Removal Procedure--only in Japanese (10/30/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0015_07.pdf
(p. 19/30) Before and after removing debris from top of fuel bundles
(p. 22/30) Safety mechanism of the fuel handling machine
(p. 26/30) Safety mechanism of the overhead crane
(p. 29/30) Dose estimate for hypothetical fuel bundle drop accident
(p. 30/30) Dose estimate for hypothetical cask drop accident

1-5. Q&A Related to Safety of Fuel Removal--only in Japanese (3/1/2013)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0005_03.pdf
(p. 4/33) Dose estimate for hypothetical cask drop accident
(p. 8/33) Cask drop test by CRIEPI
(p. 15/33) Dose estimate for hypothetical fuel bundle drop accident
(p. 31/33) Overview of dry cask storage facility

1-6. Photo of On-site Fuel Transportation Cask
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_05-e.pdf

2. U.S. Energy Secretary Ernest Moniz Visits Fukushimda Daiichi (11/1/2013)
2-1. Comment by TEPCO President Naomi Hirose
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231870_5130.html

2-2. Statement from Secretary Moniz
http://energy.gov/articles/statement-us-secretary-energy-ernest-moniz-regarding-fukushima

2-3. Technical Support Areas by U.S. DOE
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131101_03-e.pdf

2-4. Photos of Secretary Moniz at Fukushima Daiichi
http://photo.tepco.co.jp/en/date/2013/201311-e/131101-01e.html

3. Nuclear Safety Reform Plan: 2013-Q2 Progress Report (11/1/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1231860_5130.html

(Recap from last week due to technical issues related to the url.)
4. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
4-3. Status of Individual Projects (large 8 MB file)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji

To: Tateiwa, Kenji
Sent: Thursday, October 31, 2013 4:02 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Nov. 1 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Nov. 1, 2013 at 3 pm Eastern Time
(Next call will be on **Fri, Nov. 8** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Eighth NRA Working Group Meeting on Contaminated Water Issues (10/15/2013)
(only in Japanese)
1-1. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_01.pdf
(page 4/78) Contamination map (max. observed)
(page 17/78) Cs-134, 137, gross-beta, tritium concentration in sea water
(page 32/78) Detailed monitoring of groundwater
(page 37/78) Highly-contaminated water removal from Units 2/3 seawater piping trenches utilizing ice barrier

1-2. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_02.pdf
(page 12/135) Leakage located by vacuum inspection
(page 15/135) Close-up photo of leak path
(page 65/135) Gross-beta not detected and no increase in tritium from groundwater bypass wells

1-3. Tentative Dischargeable Contamination Level
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0008_05.pdf

2. Eighth Gov't-TEPCO Meeting on Contaminated Water Issues (10/25/2013)
(only in Japanese)
2-1. Overview of Contaminated Water-Related Risks and Actions to be Summarized by Year-end
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_03-j.pdf

2-2. Seven Hundred Seventy Nine Responses to Request for Information on Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c131025_04-j.pdf

2-3. On-site Efforts
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf
(page 5/94) Tank leakage monitoring
(page 20/94) Rainwater control at tank farms
(page 29/94) Tank replacement plan
(page 50/94) Preventive measures for leak-out of contaminated water due to tsunami
(page 83/94) Restoration of sub-drain system
(page 90/94) Status of sea-side impermeable wall construction

3. Ninth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (10/31/2013)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_04-j.pdf

(page 9/40) Core and containment cooling status
(page 19/40) Follow-up investigation on steam observed from Unit 3 reactor building refueling floor

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131031_06-j.pdf
(page 3/232) Nitrogen injection into Unit 2 containment for hydrogen purge
(page 17/232) Hot testing of ALPS
(page 50/232) Managing rainwater in weir of tank farms
(page 61/232) Ice wall plan
(page 129/232) Unit 4 fuel removal safety analysis
(page 129/232) Unit 3 refueling floor large debris removal completed
(page 179/232) Suppression chamber water level measurement robot demonstration test
(page 187/232) Underwater robot development

4. Licensing Document Amendment in Relation to Fuel Removal Facility for Units 1-4 Approved by NRA (10/30/2013)
(only in Japanese)
http://www.tepco.co.jp/cc/press/2013/1231805_5117.html

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Wednesday, October 09, 2013 10:31 PM
Subject: [TEPCO Weekly Fukushima Update Call] Thu, Oct. 10 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Thu, Oct. 10, 2013 at 3 pm Eastern Time
(No calls for the next 2 weeks due to business trip to Tokyo. Next call will be on **Fri, Nov. 1** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Estimation of Tsunami Arrival Time at 1F Reconfirms Conclusion that On-site Power was Lost Due to Tsunami, Not Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_03-j.pdf

2. Seismic Analysis Shows Units 1&2 Main Exhaust Stack with Broken Beams will Remain Intact with Design-basis Earthquake (10/7/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_06-j.pdf

3. Inadvertent Temporary Shutdown of Power Supply to Unit 1 Core Injection Pump and Immediate Recovery (10/7/2013)
(only in Japanese)

http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131007_08-j.pdf

4. Leak Paths Identified at Bottom of H4 Area Tank #5 (10/8/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131008_03-j.pdf

5. Water Leak Halted After Pipe Mistakenly Taken Off at Desalination System; Minor Contamination of Workers (10/9/2013)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2013/images/handouts_131009_04-j.pdf

6. Second On-Site Coordination Meeting on Contaminated Water Issues (10/9/2013)
(only in Japanese)
6-1. Current Status Regarding H4 Area Tank Leakage Detection, Seawater/Groundwater Contamination, Emergency Measures, ALPS, Subdrain System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_03-j.pdf

6-2. Revamping Contaminated Water Management
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_04-j.pdf

6-3. Contaminated Water Issues, Countermeasures and Progress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l131009_05-j.pdf

All the best,
Kenji

----- Original Message -----
From: Tateiwa, Kenji
To: Tateiwa, Kenji
Sent: Thursday, October 03, 2013 10:49 PM
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Oct. 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Oct. 4, 2013 at 3 pm Eastern Time
(Next call will be on **Thu, Oct. 10** at 3 pm)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Niigata Prefectural Governor's Approval to Apply for Regulatory Standard Compliance Review of Kashiwazaki-Kariwa Units 6 and 7 (9/26/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230926_5130.html

2. Application for Regulatory Standard Compliance Review of KK Units 6 and 7 (9/27/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1230976_5130.html
Attachment (only in Japanese)
http://www.tepco.co.jp/cc/press/betu13_j/images/130927j0101.pdf

3. Eighth Working-level Meeting of Gov't-TEPCO-Industry Council on Promotion of 1F Decommissioning (9/26/2013)

(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_04-j.pdf

3-2. Summary Status of Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_05-j.pdf

3-3. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130926_07-j.pdf

4. Seventh Gov't-TEPCO Meeting on Contaminated Water Issues (9/27/2013)
4-1. Identification of Risks Related to Contaminated Water and Examination of Countermeasures
http://www.meti.go.jp/english/earthquake/nuclear/decommissioning/pdf/20130927_001a.pdf

4-2. On-site Progress Related to Contaminated Water Issues
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c130927_05-j.pdf

5. Seventh NRA Working Group Meeting on Contaminated Water Issues (9/30/2013)
(only in Japanese)
5-1. Investigation Status on Leakage from Partially-treated Water Tank
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_01.pdf

5-2. Investigation Status on Groundwater Contamination Near Bank Protection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_02.pdf

5-3 Glitch Found in Train C of ALPS
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0007_03.pdf

6. Current Status and Countermeasures Against Contaminated Water Issues (9/30/2013)
6-1. Summary
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_01.pdf

6-2. Fundamental Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_02.pdf

6-3. Emergency Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_03.pdf

6-4. Current Status of H4 Area Tank #5 Leakage
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_04.pdf

6-5. Risk Reduction Measures
http://www.tepco.co.jp/en/nu/fukushima-np/water/images/130930_05.pdf

7. Desalinated Water Leakage from B-Area South Tank (10/3/2013)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2013/images/handouts_131003_01-e.pdf

All the best,
Kenji

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, January 09, 2014 9:40 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Jan. 10, 2014 at 3pm EST

Nuclear Sector Colleagues,

Happy New Year!
Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, **Jan. 10**, 2014 at 3 pm Eastern Time
(Next call will be on Fri, Jan. 17 at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. English Translation Now Available for 1st Progress Report of Follow-up Study on Fukushima Daiichi Accident Unresolved Issues (12/13/2013)
http://www.tepco.co.jp/en/press/corp-com/release/2013/1233101_5130.html
1-1. Summary Presentation
www.tepco.co.jp/en/press/corp-com/release/betu13_e/images/131213e0101.pdf

2. First Working-level Meeting of Decommissioning & Contaminated Water Issues Team (12/26/2013)
(only in Japanese)
2-1. Preventive and Multi-layered Measures for Contaminated Water Issues and Acceleration of Fukushima Reconstruction
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131226_04-j.pdf

2-2. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131226_05-j.pdf
(page 2/8-4/8) RPV (top right chart) and D/W (bottom right chart) Temperatures of Units 1, 2, and 3
(page 5/8) Water Storage Status

2-3. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d131226_06-j.pdf
(page 10/15) Fuel Removal from Spent Fuel Pools

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, January 16, 2014 10:18 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Jan. 17, 2014 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.
(Feel free to forward this email to your colleagues or have them contact me to be added to the distribution list.)

[Date/time]
Fri, Jan. 17, 2014 at 3 pm Eastern Time
(Next call will be on **Fri, Jan. 24** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Storage and Treatment Status of Contaminated Water (1/15/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1233659_5892.html

2. Fourteenth Decommissioning Safety Monitoring Council of Fukushima Prefecture (1/16/2014)
(only in Japanese)
http://www.tepco.co.jp/news/2014/1233657_5918.html

2.1 Waterproofing Status of Tank Farm Weirs and Flange-type Tanks
http://www.tepco.co.jp/news/2014/images/140116a.pdf
(page 5/18) Repairing cracks and joints of weirs
(page 11/18) Coating and soil improvement of weirs
(page 16/18) Waterproofing flange-type tanks

2.2 Q&A List
http://www.tepco.co.jp/news/2014/images/140116b.pdf

3. Approval of TEPCO's New Comprehensive Special Business Plan (1/15/2014)
(Tentative English translation of the summary presentation is attached.)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1233624_5892.html

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, January 23, 2014 11:55 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Jan. 24, 2014 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Jan. 24, 2014 at 3 pm Eastern Time
(**No call next week**. Next call will be on **Fri, Feb. 7** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Reactor Building 1st Floor Contamination Survey Results Using Gamma Camera (1/17/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140117_05-j.pdf
(page 2/12) Gamma camera used (left photo.)
(page 3/12) Highest dose rates measured near AC piping used for containment venting.
(page 4/12) Gamma camera images of AC piping.

2. Water Flow Observed in Unit 3 Reactor Building 1st Floor Near MSIV Room(1/18/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140122_05-j.pdf
(page 2/9) Water flow indicated in blue arrow: flowing from MSIV room to a floor drain funnel (red circle.)
(page 5/9) Radioactivity of flowing water sample indicated in red box: higher radioactivity than water injected into the core; similar to accumulated water in turbine building basement.
(page 6/9) Temperature of flowing water: 20-C; Containment ambient temp.: 22-C; core injection water temp.: 7-C.
(page 8/9) Estimated water level inside containment is similar to elevation of main steam line penetration.

[Video Footage]
http://www.tepco.co.jp/en/news/library/movie-01e.html?bcpid=59368209002&bclid=347242463002&bctid=724015827002

3. Photo Images inside Unit 2 Seawater Piping Trench (1/20/2014)
(only in Japanese)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Friday, February 07, 2014 2:02 AM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Feb. 7, 2014 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for today's Weekly Fukushima Update Call.

[Date/time]
Fri, Feb. 7, 2014 at 3 pm Eastern Time
(**No call next week**. Next call will be on **Fri, Feb. 21** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Second Working-level Meeting of Decommissioning & Contaminated Water Issues Team (1/30/2014) (only in Japanese)
1-1. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140130_05-j.pdf

1-2. Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140130_06-j.pdf
(page 3/281) Alternate core injection point for Unit 1.
(page 15/281) Reinstallation of instrumentation in Unit 2 drywell.
(page 23/281) Performance enhancement of ALPS.
(page 56/281) Field testing of Sr removal by apatite injection in soil.
(page 77/281) Water measurement results of Units 1-4 subdrain pits.
(page 88/281) Groundwater and seawater contamination trends near Units 1-4 intake structures.
(page 137/281) Status of on-site spent fuel storage.
(page 138/281) Inspection results of deformed fuel bundle in Unit 4 SFP (unrelated to 3-11 accident).
(page 148/281) Unit 3 SFP rubble removal status.
(page 154/281) Development of remote decontamination technology in reactor buildings.
(page 177/281) Investigation plan for Unit 2 reactor building refueling floor.
(page 249/281) Unit 1 estimated leakage rate to the torus room.
(page 261/281) Radioactivity analysis of rubble and timbers.

2. Discharge Criteria for Groundwater Bypass System (2/3/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140203_04-e.pdf

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 20, 2014 11:10 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Feb. 21, 2014 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, **Feb. 21**, 2014 at 3 pm Eastern Time
(Next call will be on **Fri, Feb. 28** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 3 Reactor Building Inspection Results (2/14/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140214_04-j.pdf
- Deformation found in shield plug assumed to be caused by overhead crane hook that dropped after the explosion; deformation unlikely to propagate further.

2. Radioactivity of Samples taken from Water Treatment Facilities (2/14/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/f1/smp/2014/images/water_140214-e.pdf

3. Revised Event Notification Criteria (2/19/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140219_11-j.pdf
- Added event category related to contaminated water tanks in light of recent issues with water leakages.

4. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (2/18/2014)
(only in Japanese)
4-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140218_03-j.pdf
(page 4/54) Treating contaminated water in Units 2/3 underground trench.
(page 9/54) Construction status of sea-side impermeable wall.
(page 47/54) Anti-corrosion measures for ALPS found to be effective.

4-2. Status of Measures on Contaminated Water Issues

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, February 27, 2014 11:20 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Feb. 28 at 3pm EST

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Feb. 28, 2014 at 3 pm Eastern Time
(**No call next week.** Next call will be on **Fri, March 14** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Explanation to the Fukushima Fishermen's Association (2/25/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140225_04-j.pdf

2. J-NRA Contaminated Water Working Group (2/24/2014)
(only in Japanese)
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/20140224.html
2-1. Ground Water and Sea Water Radioactivity Trend Near Units 1-4 Intake Structures
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0011_04.pdf
(page 4/39) Ground Water Radioactivity Trend
(page 11/39) Sea Water Radioactivity Trend
(page /39) Progress Status for Soil Improvement Work

2-2. Reallocation of Resources for Radioactivity Monitoring
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi_wg/data/0011_05.pdf
(page 4/11) Monitoring Locations Near Underground Reservoirs

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (2/27/2014)
(only in Japanese)
3-1. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140227_05-j.pdf

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, March 13, 2014 10:06 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, March 14 at 3pm EDT

Nuclear Sector Colleagues,
Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, March 14, 2014 at 3 pm Eastern Daylight Time
(**No call next week.** Next call will be on **Fri, March 28** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 1 Reactor Building Frame Investigation Results (3/7/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140307_07-j.pdf
(photos and videos)
http://photo.tepco.co.jp/en/date/2014/201403-e/140307_01e.html

2. Temporary Storage of Used Cesium Adsorbent, etc. (3/7/2014)
(only in Japanese)
http://www.tepco.co.jp/news/2014/images/140307d.pdf

3. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (3/12/2014)
(only in Japanese)
3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140312_03-j.pdf
(page 4/101) Work related to sea water piping trench
(page 11/101) Sea-side impermeable wall
(page 13/101) Radioactivity concentration trends at various locations
(page 60/101) Cause and measures for contaminated water leakage from H6 area tank
(page 96/101) Inadvertent cutting of buried power cable

3-2. Status of Measures on Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140312_04-j.pdf
(page 4/55) Preventive measures for contaminated water tank leakage

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Thursday, March 27, 2014 10:34 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, March 28 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, **March 28**, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri, April 4** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Full-Scale Emergency Drill at Fukushima Daiichi (3/14/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140314_06-j.pdf

2 Status for Emergency Safety Enhancement at Fukushima Daiichi (3/20/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140320_04-j.pdf
(page 7/45) Onsite dose reduction plan
(page 10/45) Status of tsunami debris removal
(page 31/45) Tank over-flow prevention measures
(page 42/45) Unit 4 SFP dose reduction measures

3 Working-level Meeting of Decommissioning & Contaminated Water Issues Team (3/27/2014)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140327_04-j.pdf
(page 1/8) Plant parameter
(page 2/8) Unit 1 RPV and D/W temperatures
(page 3/8) Unit 2 RPV and D/W temperatures
(page 4/8) Unit 3 RPV and D/W temperatures
(page 5/8) Water storage status

3-2. Summary Status of Decommissioning Roadmap

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa@wash.tepco.com]
Sent: Friday, April 04, 2014 1:37 AM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 4 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 4, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri, April 11** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. NRA Special Nuclear Facility Oversight & Evaluation Group (3/31/2014)
(only in Japanese)

1-1. Overview of ALPS System and Issues
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0019_05.pdf

1-2. Overview of Sub-drain System
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0019_06.pdf

1-3. Overview of Frozen Soil Wall System
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0019_08.pdf

2. Development of the "FY2014 TEPCO Group Action Plan" (3/31/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1235151_5892.html

"FY2014 TEPCO Group Action Plan"
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu14_j/images/140331j0201.pdf
(page 6/26) Cooperation in developing the "Innovation Coast"
(page 7/26) Tackling contaminated water issues
(page 8/26) Consistently achieving decommissioning roadmap targets
(page 9/26) Enhancing equipment reliability at Fukushima Daiichi
(page 10/26) Nuclear safety at TEPCO
(page 11/26) Safety measures at Kashiwazaki Kariwa

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, April 10, 2014 9:27 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 11 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, April 11, 2014 at 3 pm Eastern Daylight Time
(**No call next week.** Next call will be on **Fri, April 25** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (4/7/2014)
(only in Japanese)

1-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140407_03-j.pdf
(page 12/64) Contaminated water treatment in Units 2/3 seawater piping trench
(page 34/64) Radioactivity in groundwater bypass wells
(page 40/64) Status of ALPS

1-2. Response to Issues Raised at the Meeting
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140407_04-j.pdf
(page 4/59) Addition of second layer of wier around tank farms
(page 8/59) Installation of additional tanks
(page 24/59) Groundwater/tritium migration simulation near Unit 1 intake structure
(page 40/59) Water-proofing measures at HTI building
(page 45/59) Installation of subdrain water processing system

1-3. Mid-to-long Term Plan for Solid Waste Storage
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140407_05-j.pdf

2. Fukushima Prefecture Safety Monitoring Council on Decommissioning (4/9/2014)
(only in Japanese)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, April 25, 2014 12:13 AM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, April 25 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for today's Weekly Fukushima Update Call.

[Date/time]
Fri, April 25, 2014 at 3 pm Eastern Daylight Time
(**No call next week.** Next call will be on **Fri, May 9** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. J-NRA Contaminated Water Working Group (4/11/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140411_04-j.pdf
(page 4/153) Groundwater contamination monitoring data
(page 16/153) Seawater contamination monitoring data
(page 31/153) Groundwater flow simulation results
(page 106/153) Options of installing roof on tank farms
(page 135/153) Correction of beta-rich specimen due to "counting loss effect"

2 Working-level Meeting of Decommissioning & Contaminated Water Issues Team (4/24/2014)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140424_04-j.pdf
(page 6/8) Weekly trend of contaminated water storage status

2-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140424_06-j.pdf
(page 2/19) Unit 4 spent fuel pool: 726/1533 fuel bundles transferred
(page 7/19) Seawater contamination inside the port
(page 8/19) Seawater contamination outside the port
(page 15/19) Unit 1 status
(page 16/19) Unit 2 status
(page 17/19) Unit 3 status

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, May 08, 2014 10:03 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 9 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for today's Weekly Fukushima Update Call.

[Date/time]
Fri, May 9, 2014 at 3 pm Eastern Daylight Time
(No call next week. Next call will be on Fri, May 23 at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Contaminated Water Committee (4/28/2014)
(only in Japanese)
1-1. Preventive and Multi-layered Additional Measures
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140428_03-j.pdf

1-2. Status Report of Land-side Impermeable Wall (Frozen Soil Wall) Task Force
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140428_04-j.pdf

1-3. Status Report of ALPS Task Force
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140428_05-j.pdf

1-4. Issues List of Tritium Task Force
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140428_06-j.pdf

1-5. Status of Contaminated Water Countermeasures
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140428_07-j.pdf

1-6. Additional Measures to Stop Groundwater Ingress
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c140428_08-j.pdf

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, July 17, 2014 11:43 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, July 18 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, July 18, 2014 at 3 pm Eastern Daylight Time
(No call next week. Next call will be on **THU, July 31** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Progress Status of Ice Boundary between Units 2/3 Seawater Piping Trenches and Turbine Buildings (7/7/2014)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140707_05-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/archive-j.html?video_uuid=rbudts0u&catid=61699

2. Investigation Result of Unit 3 Reactor Building North-West Corner (7/11/2014)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140711_06-j.pdf

3. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (7/14/2014)
(only in Japanese)
3-1. Status of Onsite Work Related to Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140714_03-j.pdf

3-2. Response to Issues Raised at the Meeting
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140714_04-j.pdf

3-3. Interim Testing Report on Use of Plastic Scintillation Fiber for Contaminated Water Leakage Detection
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l140714_05-j.pdf

4. No Impact due to M 6.8 Earthquake Near Fukushima (7/12/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1238987_5892.html

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Wednesday, July 30, 2014 8:47 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] THU, July 31 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
THU, July 31, 2014 at 3 pm Eastern Daylight Time
(Next call will be on Fri, Aug. 8 at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Unit 2 Torus Room Wall Survey (7/29/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140728_05-e.pdf
(video clip)
http://www.tepco.co.jp/en/news/library/archive-e.html?video_uuid=c24iaxhc&catid=61785

2. NRA Special Facilities Monitoring and Evaluation Committee (7/23/2014)
(only in Japanese)
2.1 Progress Status on Freezing of Units 2/3 Seawater Piping Trench Connection
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_01.pdf

2.2 Unit 1 Reactor Building Dust Inhibition Measures During Cover Dismantling and Rubble Removal
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_02.pdf

2.3 Replacement of Fuel Rack in Common Pool
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_03_01.pdf

2.4 Fuel Removal Plan for Unit 3 Spent Fuel Pool
http://www.nsr.go.jp/committee/yuushikisya/tokutei_kanshi/data/0025_03_02.pdf

3. Contaminated Water Treatment Committee (7/25/2014)
(only in Japanese)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, August 07, 2014 5:17 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 8 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 8, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri, Aug. 15** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Plan Towards a Full-Scale Operation of the Multi-Nuclide Removal Facility (ALPS) (7/31/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d140731_01-e.pdf

2. Unit 1 Reactor Building Cover to be Dismantled (8/1/2014)
http://www.tepco.co.jp/en/press/corp-com/release/2014/1239910_5892.html
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140801_01-e.pdf

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/31/2014)
(only in Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140731_04-j.pdf
(page 6/8) Contaminated water storage volume trend.

3-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140731_05-j.pdf
(page 9/21) Seawater sampling results (inside the port)
(page 10/21) Seawater sampling results (outside the port)

3.3 Status of Individual Projects
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d140731_06-j.pdf
(page 3/300) Unit 1 RPV nitrogen purging from jet pump sensing line

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, August 14, 2014 6:44 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 15 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 15, 2014 at 3 pm Eastern Daylight Time
(Next call will be on **Fri, Aug. 22** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Verification Testing of Subdrain Water Treatment Facility (8/11/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140811_04-e.pdf

2. Measures to Reduce Seawater Contamination (8/11/2014)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2014/images/handouts_140811_03-e.pdf

3. Difference between Ice Barrier of Trench and Frozen Soil Wall (8/5/2014)
(video clip)
https://www.youtube.com/watch?v=C6YSOrfS1Kc

4. Retiring Areva Water Treatment Facility (8/11/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140811_07-j.pdf

5. Construction Plan for Additional Solid Waste Storage Warehouse (8/13/2014)
(only in Japanese)
http://www.tepco.co.jp/cc/press/betu14_j/images/140813j0209.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

(Feel free to forward this email to your colleagues or have them contact me to be added to the distribution list.)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji (b)(6) [mailto:tateiwa@wash.tepco.com]
Sent: Thursday, August 21, 2014 8:19 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, Aug. 22 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, Aug. 22, 2014 at 3 pm Eastern Daylight Time
(No call next week. Next call will be on **Fri, Sept. 5** at 3 pm.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. Demonstration Testing of Underwater Robot for Inspecting Lower-outer Surface of Torus (8/18/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140818_03-j.pdf

2. Verification Testing of High-performance ALPS (8/18/2014)
(only in Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140818_07-j.pdf
(photos: 8/20/2014)
http://photo.tepco.co.jp/_1212/140820-01j.html

3. NRA Special Facilities Monitoring and Evaluation Committee (8/19/2014)
(only in Japanese)
3-1. Status of Seawater Piping Trench "Ice Barrier" and Mockup Testing of Grout Injection, etc.
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140819_02-j.pdf

3-2. Estimated Release of Radioactivity Due to Unit 3 Reactor Building Rubble Removal
http://www.tepco.co.jp/nu/fukushima-np/handouts/2014/images/handouts_140819_03-j.pdf

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, January 29, 2015 8:00 PM
To: Uhle, Jennifer; Witt, Kevin
Cc: Norton, Charles; Marksberry, Don; Nicholson, Thomas; Bernardo, Robert
Subject: [NAS Fukushima Phase 2] TEPCO Presentation (1/29/2015)

Jennifer and Kevin,

It was nice seeing you at the NAS Fukushima Phase 2 meeting this afternoon.

Per Kevin's request, I am sending you a copy of my presentation.
Feel free to share it with your colleagues at NRC or anyone interested in the topic.

Please let me know if you have any questions.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Esmaili, Hossein

Outside of Scope

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Tuesday, April 14, 2015 10:00 PM
To: Madden, Patrick; West, Steven; Bernardo, Robert; Aird, David; koi@k.u-tokyo.ac.jp; andrew.Szilagyi@em.doe.gov; philip.mattson@hq.dhs.gov; kamel.saidi@nist.gov; 'Jacoff, Adam S.'; Nicholson, Thomas
Subject: Re: First organizational meeting to plan the November 2015 Workshop on the Use of Robotics at Nuclear Facilities

Tom and all,

Please find below links to the results of investigation inside Unit 1 drywell conducted on April 10th.

[Slides]
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2015/images/handouts_150413_01-e.pdf

[Photos and Video]
http://photo.tepco.co.jp/en/date/2015/201504-e/150413-01e.html

Although the robot unfortunately got stuck inside the drywell and had to be abandoned, we obtained invaluable data.

The same type of robot will be inserted into the drywell on April 15 at 9 am Japan time and will investigate clockwise inside the drywell.

[Slides: only in Japanese]
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150415_01-j.pdf

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office

Esmaili, Hossein

From: Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp>
Sent: Thursday, May 21, 2015 9:22 PM
To: Tateiwa, Kenji
Subject: [TEPCO Weekly Fukushima Update Call] Fri, May 22, 2015 at 3pm EDT

Nuclear Sector Colleagues,

Please find below information for tomorrow's Weekly Fukushima Update Call.

[Date/time]
Fri, May 22, 2015 at 3pm Eastern Daylight Time
(No Call Next Week. Next call will be on Fri, June 5 at 3pm EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184
(b)(6)

[Major topics]
1. IAEA Peer Review Mission Report #3 (5/14/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/handouts/2015/images/handouts_150514_01-e.pdf

"IAEA Issues Report on Fukushima Decommissioning Review" (IAEA Press Release)
https://www.iaea.org/newscenter/pressreleases/iaea-issues-report-fukushima-decommissioning-review

2. Fukushima Nuclear Accident Unresolved Issues Progress Report # 3 (5/20/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1250927_6844.html

(English Summary)
http://www.tepco.co.jp/en/press/corp-com/release/betu15_e/images/150520e0101.pdf

(Japanese Full Report: 503 pages, 27 MB)
http://www.tepco.co.jp/cc/press/betu15_j/images/150520j0102.pdf

3. High-Level Meeting of Decommissioning & Contaminated Water Issues Team (5/21/2015)
(only in Japanese)
3-1. Basic Policy regarding the Mid-and-Long-Term Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150521_05-j.pdf

3-2. Straw Man for the Mid-and-Long-Term Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150521_06-j.pdf

3-3. Enhanced Coordination on R&D Activities for Decommissioning and Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/t150521_03-j.pdf

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

(Feel free to forward this email to your colleagues or have them contact me to be added to the distribution list.)

All the best,
Kenji

From: Tateiwa, Kenji
Sent: 28 May 2015 01:25:39 +0900
To: Joy Rempe;Basu, Sudhamay;RCBUNT@southernco.com;corradin@engr.wisc.edu;phillip.ellison@ge.com;Mitchell T. Farmer;Francis, Matthew W.;Jeff R. Gabor;Randall O' 'Gauntt;Lee, Richard;roy.linthicum@exeloncorp.com;btwillia@tva.gov;Peko, Damian;Plys, Martin G;Joy Rempe;Resident Researcher - Yamada, Daichi;KRAFT, Steven;cristian.rabiti@inl.gov;dlluxat@erineng.com;Bob Lutz;Luangdilok, Wison;Paik@fauske.com;Robb, Kevin R.;Wachowiak, Richard;Yasunori YAMANAKA;Clayton, Dwight A.;Naser, Joseph
Subject: [1F Forensics Examination] Concrete Core Samples from Units-1/2 R/B

Joy and all,

Please see pages 224/231 to 231/231 of the material below for JAEA's analysis results for concrete core samples taken from the 1st floor of reactor buildings of Units 1 and 2 (dated Aug. 29, 2013.)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d130829_06-j.pdf

Measurement of contamination from gamma, beta, and alpha radionuclides have been conducted.

All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 2143 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
Sent: 22 May 2015 11:16:38 -0400
To: Resident Researcher - Yamada, Daichi;btwillia@tva.gov;Yasunori YAMANAKA;Wachowiak, Richard;Robb, Kevin R.;Joy Rempe;Plys, Martin G;Peko, Damian;Paik@fauske.com;roy.linthicum@exeloncorp.com;Lee, Richard;Luangdilok, Wison;Randall O' 'Gauntt;Jeff R. Gabor;Francis, Matthew W.;Mitchell T. Farmer;phillip.ellison@ge.com;corradin@engr.wisc.edu;RCBUNT@southernco.com;Basu, Sudhamay
Subject: 1F R/B Survey Maps [Material for Upcoming Forensics Expert Panel Discussions on May 27-28]
Importance: Normal

Joy and all,
Please find below radiation dose survey map inside the reactor buildings of 1F Units 1-6 (in Japanese.)
(Data obtained up to 5/8/2015)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20150508-j.pdf
(Data obtained up to 3/27/2014)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20140327-j.pdf
(Data obtained up to 3/22/2013)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20130322-j.pdf
(Data obtained up to 3/15/2013; only for Unit 1)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20130315-j.pdf
(Data obtained up to 2/27/2013; only for Unit 1)
http://www.tepco.co.jp/nu/fukushima-np/f1/surveymap/images/f1-sv3-20130227-j.pdf
Joy,
I will call you today (Fri, May 22) at 4 pm EDT to provide you with some comments on the material that you have prepared.
All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

Outside of Scope

Page 2146 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
Sent: 6 Aug 2015 10:10:12 +0900
To: 'Joy Rempe';Basu, Sudhamay;RCBUNT@southernco.com;corradin@engr.wisc.edu;'phillip ellison';'Mitchell T. Farmer';'Matthew W.' 'Francis';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;'Linthicum, Roy R.:(GenCo-Nuc)';btwillia@tva.gov;'Damian' 'Peko';'Martin G' 'Plys';'Resident Researcher - Yamada, Daichi';'Steven' 'KRAFT';'cristian rabiti';'Bob Lutz';'Wison' 'Luangdilok';Paik@fauske.com;'Kevin R.' 'Robb';'Richard' 'Wachowiak';'Yasunori YAMANAKA';'Donald A' 'Kalinich';'Amway, Phillip M:(GenCo-Nuc)'
Subject: [External_Sender] [1F Forensics Report] Discussion with TEPCO Fuel Debris Removal Team

Joy and all,
I have been involved in TEPCO's internal meetings to discuss what investigation should be done when conducting various entries into the reactor buildings and primary containments of 1F.
I provided the draft Forensics Report to my colleagues in charge of such investigations (their focus is fuel debris removal), and they are willing to take into consideration the requests included in the report (to the extent possible.)
They may ask you for clarification on why you would like to obtain certain information.
Although the rationale of your requests is described in the report, it may not be sufficient to justify the additional burden.
I will let you know when my colleagues come up with specific questions.
It may make sense to set up a teleconference between the TEPCO fuel debris removal team and your team at some point.
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, July 18, 2015 6:03 PM
To: 'Amway, Phillip M:(GenCo-Nuc)'; 'Joy Rempe'
Cc: 'sudhamay basu'; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Richard' 'Lee'; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'
Subject: RE: TEPCO Comments: June 30 Draft of Forensics Report and Requests to Others

Joy and Phil,
Thank you for incorporating TEPCO's comments and coordinating among the U.S. stakeholders.
Joy,
As for your question regarding METI, you may want to refer to it as the "lead governmental organization" in Figure 3 (p. 23/101) in the box of "Japanese government."
The description of the new Roadmap in Section 2 looks OK.
All the best,
Kenji

Outside of Scope

Page 2148 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: "Kenji Tateiwa" <tateiwa.kenji@tepco.co.jp>
To: "Joy Rempe" <jlrempe@cableone.net>
Cc: "sudhamay basu" <sudhamay.basu@nrc.gov>, RCBUNT@southernco.com, corradin@engr.wisc.edu, "phillip ellison" <phillip.ellison@ge.com>, "Mitchell T. Farmer" <farmer@anl.gov>, "Matthew W.' 'Francis" <francismw@ornl.gov>, "Jeff R. Gabor" <jrgabor@erineng.com>, "Randall O' 'Gauntt" <rogaunt@sandia.gov>, "Richard' 'Lee" <Richard.Lee@nrc.gov>, "roy linthicum" <roy.linthicum@exeloncorp.com>, btwillia@tva.gov, "Damian' 'Peko" <damian.peko@nuclear.energy.gov>, "Martin G' 'Plys" <Plys@Fauske.com>, "Resident Researcher – Yamada, Daichi" <dyamada@guestresearcher.epri.com>, "Steven' 'KRAFT" <spk@nei.org>, "cristian

rabiti" <cristian.rabiti@inl.gov>, "Bob Lutz" (b)(6) "Wison' 'Luangdilok" <Luangdilok@Fauske.com>, Paik@fauske.com, "Kevin R.' 'Robb" <robbkr@ornl.gov>, "Richard' 'Wachowiak" <rwachowiak@epri.com>, "Yasunori YAMANAKA" <yamanaka.yasunori@tepco.co.jp>, "Donald A' 'Kalinich" <dakalin@sandia.gov>

Sent: Sunday, July 12, 2015 3:08:14 AM

Subject: TEPCO Comments: June 30 Draft of Forensics Report

Joy and all,

I am finally catching up with the massive backlog of emails that I had to respond during my transition period.

Please find below some comments on the draft report dated 6-30-15.

(Including those comments from Daichi Yamada.)

(p.22/102)

"Appendix D contains roadmaps produced by TEPCO that detail planned D&D activities."

Change to:

"Appendix D contains roadmaps produced by the Japanese Government that detail planned D&D activities."

(p. 31/102)

"dose rates (in mSv/hr) are being obtained from Unit 1 using gamma cameras"

Change to:

"dose rates (in mSv/hr) are being obtained from Unit 1 using dosimeter mounted on a robot"

(p. 36/102 and 50/102)

Inside of the box of "Stakeholder Socialization" in Figure 14.

Add "METI."

(p. 69/102)

PC-12 "To determine if failure of TIP tubes and SRV/IRM tubes outside the RPV led to depressurization"

àAlthough we have not conducted direct investigation into this issue, we had attempted to insert a fiber scope through the TIP guide tube of Unit 2.

However, the fiber scope got stuck at the TIP indexer and could not get pass that location.

http://photo.tepco.co.jp/en/date/2013/201307-e/130708-02e.html

(p. 75/102 and 86/102)

"Inspect sampling of Daiichi U5 and U6 irradiated fuel to evaluate if any damage from shortterm temperature/pressure excursion"

àSince the RPV pressure was controlled within the safety valve lift pressure and the fuels never got exposed, there may not be any interesting findings.

(p. 101/102)

"Inspect containment vent line if used for venting during post ELAP event response. Determine condition of rupture disc."

àVenting did not take place at Diani.

"Determine degree of galvanized and aluminum oxidation in the primary containment and evaluate in terms of a source for hydrogen production."

àThis should be done at Daini.

All the best,

Kenji

(Please ignore the error message you might receive from my DC office email account that has been disabled.)

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
cell: +81-80-6847-2944
tateiwa.kenji@tepco.co.jp

Outside of Scope

Outside of Scope

From: Tateiwa, Kenji
Sent: 29 Aug 2015 15:40:58 +0900
To: 'Joy Rempe';Basu, Sudhamay;RCBUNT@southernco.com;corradin@engr.wisc.edu;'phillip ellison';'Mitchell T. Farmer';'Matthew W.' 'Francis';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;'Linthicum, Roy R.:(GenCo-Nuc)';btwillia@tva.gov;'Damian' 'Peko';'Martin G' 'Plys';'Resident Researcher - Yamada, Daichi';'Steven' 'KRAFT';'cristian rabiti';'Bob Lutz';'Wison' 'Luangdilok';Paik@fauske.com;'Kevin R.' 'Robb';'Richard' 'Wachowiak';'Yasunori YAMANAKA';'Donald A' 'Kalinich';'Amway, Phillip M:(GenCo-Nuc)'
Subject: [External_Sender] [1F Forensics Report] Requests Incorporated in Unit 3 D/W Inspection Plan

Joy and all,
Some items in the wish list of the Forensics Report have been incorporated in TEPCO' s plan to investigate inside the Unit 3 drywell planned in October 2015.
See pages 10/30 to 20/30 of the following presentation (in Japanese.)
3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
I will be covering this material during the next Fukushima Update teleconference on Mon, Aug. 31 from 9 am EDT.
call number (New York): 718-354-1184
(b)(6)
Let me know if you are interested in receiving future notices of my update call (many of you are already on my list.)
All the best,
Kenji

Outside of Scope

Page 2154 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2155 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2156 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2157 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2158 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
Sent: 11 Sep 2015 23:46:31 +0900
To: 'Joy Rempe';Basu, Sudhamay;RCBUNT@southernco.com;corradin@engr.wisc.edu;'phillip ellison';'Mitchell T. Farmer';'Matthew W.' 'Francis';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;'Linthicum, Roy R.:(GenCo-Nuc)';btwillia@tva.gov;'Damian' 'Peko';'Martin G' 'Plys';'Steven' 'KRAFT';'cristian rabiti';'Bob Lutz';'Wison' 'Luangdilok';Paik@fauske.com;'Kevin R.' 'Robb';'Richard' 'Wachowiak';'Donald A' 'Kalinich';'Amway, Phillip M:(GenCo-Nuc)'
Cc: 'Resident Researcher - Yamada, Daichi';'Yasunori YAMANAKA';yamamoto.masayuki@tepco.co.jp;takashi.hara@tepco.co.jp;takahashi.kosuke@tepco.co.jp;' ?? ??';?? ??;?? ??;?? ??;?? ??
Subject: [External_Sender] [1F Forensics Report] Trial Teleconference: Thu, Sept. 17 from 5 pm MDT

1F Forensics Team,
Based on my recent discussion with Joy and Mike, we have decided to do a "Trial Teleconference" as a first step towards establishing a framework for experts in the U.S. and Japan to have interactive dialogues on the topic of Fukushima Daiichi forensics and D&D-related issues.
Please find below details for the teleconference.

[Date/time]
Thu, Sept. 17, 2015 at 5 pm MDT/6 pm CDT/7 pm EDT
(Fri, Sept. 18 at 8 am JST)

[Call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)

[Agenda]
1. Briefing on 1F status (with focus on investigation activities)—Kenji
1-1. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015) (Japanese)
Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
1-2. Visual Investigation Results of Unit 3 Primary Containment Equipment Hatch (9/9/2015) (Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150909_12-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/archive-j.html?video_uuid=aatm0o3t&catid=61699
2. My recent visit to 1F (on Sept. 2) —Kenji
3. Planned DOE work scope (pending FY16 authorization)—Joy
Apologies for the short notice and inconvenient time for those especially in the East Coast.
Please let me know if you can join the call.
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager

Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
cell: +81-80-6847-2944
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, August 29, 2015 3:41 PM
To: 'Joy Rempe'; 'sudhamay basu'; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Richard' 'Lee'; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'; 'Amway, Phillip M:(GenCo-Nuc)'
Subject: [1F Forensics Report] Requests Incorporated in Unit 3 D/W Inspection Plan

Joy and all,

Some items in the wish list of the Forensics Report have been incorporated in TEPCO's plan to investigate inside the Unit 3 drywell planned in October 2015.

See pages 10/30 to 20/30 of the following presentation (in Japanese.)

3-5. Preparation for Fuel Debris Removal

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf

I will be covering this material during the next Fukushima Update teleconference on Mon, Aug. 31 from 9 am EDT.

call number (New York): 718-354-1184
(b)(6)

Let me know if you are interested in receiving future notices of my update call (many of you are already on my list.)

All the best,

Kenji

Outside of Scope

Outside of Scope

On 8/5/2015 7:10 PM, Tateiwa, Kenji wrote:

Joy and all,
I have been involved in TEPCO's internal meetings to discuss what investigation should be done when conducting various entries into the reactor buildings and primary containments of 1F.
I provided the draft Forensics Report to my colleagues in charge of such investigations (their focus is fuel debris removal), and they are willing to take into consideration the requests included in the report (to the extent possible.)
They may ask you for clarification on why you would like to obtain certain information. Although the rationale of your requests is described in the report, it may not be sufficient to justify the additional burden.
I will let you know when my colleagues come up with specific questions.
It may make sense to set up a teleconference between the TEPCO fuel debris removal team and your team at some point.
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, July 18, 2015 6:03 PM
To: 'Amway, Phillip M:(GenCo-Nuc)'; 'Joy Rempe'
Cc: 'sudhamay basu'; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Richard' 'Lee'; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'
Subject: RE: TEPCO Comments: June 30 Draft of Forensics Report and Requests to Others

Joy and Phil,
Thank you for incorporating TEPCO's comments and coordinating among the U.S. stakeholders.
Joy,
As for your question regarding METI, you may want to refer to it as the "lead governmental organization" in Figure 3 (p. 23/101) in the box of "Japanese government."
The description of the new Roadmap in Section 2 looks OK.
All the best,
Kenji

Outside of Scope

Page 2163 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2164 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: "Kenji Tateiwa" <tateiwa.kenji@tepco.co.jp>
To: "Joy Rempe" <jlrempe@cableone.net>
Cc: "sudhamay basu" <sudhamay.basu@nrc.gov>, RCBUNT@southernco.com, corradin@engr.wisc.edu, "phillip ellison" <phillip.ellison@ge.com>, "Mitchell T. Farmer" <farmer@anl.gov>, "Matthew W.' 'Francis" <francismw@ornl.gov>, "Jeff R. Gabor" <jrgabor@erineng.com>, "Randall O' 'Gauntt" <rogaunt@sandia.gov>, "Richard' 'Lee" <Richard.Lee@nrc.gov>, "roy linthicum" <roy.linthicum@exeloncorp.com>, btwillia@tva.gov, "Damian' 'Peko" <damian.peko@nuclear.energy.gov>, "Martin G' 'Plys" <Plys@Fauske.com>, "Resident Researcher - Yamada, Daichi" <dyamada@guestresearcher.epri.com>, "Steven' 'KRAFT" <spk@nei.org>, "cristian rabiti" <cristian.rabiti@inl.gov>, "Bob Lutz" (b)(6) "Wison' 'Luangdilok" <Luangdilok@Fauske.com>, Paik@fauske.com, "Kevin R.' 'Robb" <robbkr@ornl.gov>, "Richard' 'Wachowiak" <rwachowiak@epri.com>, "Yasunori YAMANAKA" <yamanaka.yasunori@tepco.co.jp>, "Donald A' 'Kalinich" <dakalin@sandia.gov>
Sent: Sunday, July 12, 2015 3:08:14 AM
Subject: TEPCO Comments: June 30 Draft of Forensics Report

Joy and all,

I am finally catching up with the massive backlog of emails that I had to respond during my transition period.

Please find below some comments on the draft report dated 6-30-15.

(Including those comments from Daichi Yamada.)

(p.22/102)

"Appendix D contains roadmaps produced by TEPCO that detail planned D&D activities."

Change to:

"Appendix D contains roadmaps produced by the Japanese Government that detail planned D&D activities."

(p. 31/102)

"dose rates (in mSv/hr) are being obtained from Unit 1 using gamma cameras"

Change to:

"dose rates (in mSv/hr) are being obtained from Unit 1 using dosimeter mounted on a robot"

(p. 36/102 and 50/102)

Inside of the box of "Stakeholder Socialization" in Figure 14.

Add "METI."

(p. 69/102)

PC-12 "To determine if failure of TIP tubes and SRV/IRM tubes outside the RPV led to depressurization"

àAlthough we have not conducted direct investigation into this issue, we had attempted to insert a fiber scope through the TIP guide tube of Unit 2.

However, the fiber scope got stuck at the TIP indexer and could not get pass that location.

http://photo.tepco.co.jp/en/date/2013/201307-e/130708-02e.html

(p. 75/102 and 86/102)
"Inspect sampling of Daiichi U5 and U6 irradiated fuel to evaluate if any damage from shortterm temperature/pressure excursion"
àSince the RPV pressure was controlled within the safety valve lift pressure and the fuels never got exposed, there may not be any interesting findings.
(p. 101/102)
"Inspect containment vent line if used for venting during post ELAP event response. Determine condition of rupture disc."
àVenting did not take place at Diani.
"Determine degree of galvanized and aluminum oxidation in the primary containment and evaluate in terms of a source for hydrogen production."
àThis should be done at Daini.
All the best,
Kenji
(Please ignore the error message you might receive from my DC office email account that has been disabled.)

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Outside of Scope

Outside of Scope

ׅrom: Tateiwa, Kenji
ׅent: 10 Oct 2015 18:43:34 +0900
'o: 'Joy Rempe';Basu, Sudhamay;RCBUNT@southernco.com;'Michael Corradini';phillip.ellison@ge.com;'Mitchell T. 'armer';'Frances Marshall';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;roy.linthicum@exeloncorp.com;btwillia@tva.gov;'Peko,)amian';'Plys, Martin G';'KRAFT, Steven';cristian.rabiti@inl.gov;'Bob Lutz';'Luangdilok, Wison';Paik@fauske.com;'Robb, Kevin 1.';'Wachowiak, Richard';'Yang, Rosa';'Kalinich, Donald A';'Amway, Phillip M:(GenCo-Nuc)';dlluxat@erineng.com;Marksberry,)on;Algama, Don;West, Steven;Richard.Reister@nuclear.energy.gov;'Smith-Kevern, Rebecca';'Kelly, John E NE)';Edgardo.Deleon@em.doe.gov
:c: 'takashi hara';'Yasunori YAMANAKA';'yamamoto masayuki';'takahashi .osuke';yasutaka.denda@tepco.co.jp;kamada.toshinori@tepco.co.jp;sekita.shunsuke@tepco.co.jp;yamauchi.keisuke@tepco.co.jp;takuy ..kotaki@tepco.co.jp;mizokami.shinya@tepco.co.jp;murano.kenji@tepco.co.jp;'Resident Researcher - Yamada, Daichi'
ׅubject: [External_Sender] [Expert Panel on 1F Forensics] 2nd Trial Teleconference: Thu, Oct. 15 from 6 pm MDT
ׅttachments: [TEPCO Fukushima Update Call] Mon, Oct. 5, 2015.pdf

F Forensics Team,

'lease find below details for the 2nd trial teleconference on Fukushima Daiichi forensics and D&D-related issues.

Date/time]
'hu, Oct. 15, 2015 at 6 pm MDT/ 7 pm CDT/ 8 pm EDT
Fri, Oct. 16 at 9 am JST)

Call-in information] (Please record your name and organization when joining the call.)
:all number: 718-354-1184 (New York) / 03-6328-1972 (Tokyo)
b)(6)

Agenda (tentative)] ***Please provide comments.***
. Briefing on 1F status (with focus on investigation activities)—Kenji
1-1. Preparation for Fuel Debris Removal (10/1/2015)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
(page 1/30) Unit 3 drywell investigation schedule
(pages 4/30-13/30) Unit 1 reactor building 1st floor investigation
(pages 14/30-20/30) Unit 2 drywell penetration shield block removal
(pages 21/30-30/30) Unit 3 drywell equipment hatch investigation
1-2. Radioactive Waste Processing (10/1/2015)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf
(pages 12/27-27/27) Radionuclides analyses of samples taken from Units 1-3 reactor buildings
FYI, attached is a copy of my notification email for the monthly update call on Oct. 5th.)
:. Agenda for the Nov. 9-10 Face-to-face meeting in DC—Joy

'lease let Joy and me know if you can join the call.
ׅll the best,
'enji

'enji Tateiwa
;afety Engineering Group Manager
'ukushima Daiichi D&D Engineering Company
'okyo Electric Power Company, Inc.
-1-3 Uchisaiwai-cho, Chiyoda-ku
'okyo, Japan
ׅffice: +81-3-6373-4751
b)(6)
ateiwa.kenji@tepco.co.jp

Page 2169 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Tateiwa, Kenji

差出人: Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp>
送信日時: 2015年10月2日金曜日 22:09
宛先: 'Tateiwa, Kenji'
件名: [TEPCO Fukushima Update Call] Mon, Oct. 5, 2015 at 9 am EDT/2 pm BST/10 pm JST

Friends and Colleagues,

Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.

[Date/time]
Mon, Oct. 5, 2015 at **9 am U.S. Eastern Daylight Time**
2 pm British Summer Time
10 pm Japan Standard Time
(Next call: **Mon, Nov. 2** at 8 am EST/1 pm GMT/10 pm JST.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (9/28/2015)
(Japanese)
1-1. Seawater and Ground Water Sampling Results (8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_03-j.pdf

1-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_04-j.pdf

1-3. Solid Radioactive Waste Storage
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_09-j.pdf

1-4. Progress on Contaminated Water Issues (14 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_13-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/1/2015)
(Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_05-j.pdf
(English translation as of 8/27/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150827_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_06-j.pdf

2-4. Preparation for Fuel Removal from Spent Fuel Pools (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_07-j.pdf

2-5. Preparation for Fuel Debris Removal (5 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_10-j.pdf

2-8. Environmental Radiation Issues (file size: 17 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_11-j.pdf

3. "A Study of the Fukushima Daiichi Nuclear Accident Process"
English translation of a book written by Dr. Michio Ishikawa, a world-renowned nuclear safety expert.
Although TEPCO does not necessarily agree with all of his hypotheses in this book, we believe it provides valuable insights.
http://www.springer.com/us/book/9784431555421

[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html

* *If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
** *Let me know if any of your colleagues or friends would like to be added to this distribution list.*

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
cell: +81-80-6847-2944
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, August 28, 2015 11:22 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Aug. 31, 2015 at 9 am EDT/10 pm JST

Friends and Colleagues,

Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.

[Date/time]
Mon, August 31, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: **Mon, Oct. 5** at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. Nuclear Reform Monitoring Committee (8/24/2015)
(English)
http://www.nrmc.jp/en/report/detail/1258279_5233.html
1-1. Current status of Fukushima Daiichi
http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E2.pdf

1-2. Overview of Nuclear Safety Reform Plan Progress Report
http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E6.pdf

2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/25/2015)
(Japanese)

2-1. Seawater and Ground Water Sampling Results (10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_03-j.pdf

2-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_04-j.pdf

2-3. Unit 3 SFP Large Rubble Removal Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_05-j.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2015/201508-e/150804-01e.html

2-4. Action Plan for Offsite Impact Risks
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_06-j.pdf

2-5. Disclosure of All Radiation-related Data
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_09-j.pdf
(related website)
http://www.tepco.co.jp/decommision/planaction/monitoring2/index-j.html

2-6. Progress on Contaminated Water Issues (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_13-j.pdf

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)

3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_04-j.pdf

3-2. Summary Status of Decommissioning Roadmap (file size: 9 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_05-j.pdf
(English translation as of 7/30/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150730_01-e.pdf

3-3. Contaminated Water Issues (file size: 23 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_06-j.pdf

3-4. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_07-j.pdf

3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf

3-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_09-j.pdf

3-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_10-j.pdf

3-8. Environmental Radiation Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_11-j.pdf

All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,

I hope this email finds you well.

A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.

I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)

Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.

[Date/time]
Mon, August 3, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: Mon, Aug. 31 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html

4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing

All the best,
Kenji

'rom: Tateiwa, Kenji
ient: 28 Oct 2015 19:04:28 +0900
'o: 'Joy Rempe';Basu, Sudhamay;RCBUNT@southernco.com;'Michael Corradini';phillip.ellison@ge.com;'Mitchell T. 'armer';'Frances Marshall';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;roy.linthicum@exeloncorp.com;btwillia@tva.gov;'Peko,)amian';'Plys, Martin G';'KRAFT, Steven';cristian.rabiti@inl.gov;'Bob Lutz';'Luangdilok, Wison';Paik@fauske.com;'Robb, Kevin ?.';'Wachowiak, Richard';'Yang, Rosa';'Kalinich, Donald A';'Amway, Phillip M:(GenCo-Nuc)';dlluxat@erineng.com;Marksberry,)on;Algama, Don;West, Steven;Richard.Reister@nuclear.energy.gov;'Smith-Kevern, Rebecca';'Kelly, John E NE)';Edgardo.Deleon@em.doe.gov
:c: 'takashi hara';'Yasunori YAMANAKA';'yamamoto masayuki';'takahashi .osuke';yasutaka.denda@tepco.co.jp;kamada.toshinori@tepco.co.jp;sekita.shunsuke@tepco.co.jp;yamauchi.keisuke@tepco.co.jp;takuy ..kotaki@tepco.co.jp;mizokami.shinya@tepco.co.jp;murano.kenji@tepco.co.jp;'Resident Researcher - Yamada, Daichi'
iubject: [External_Sender] [Expert Panel on 1F Forensics] Pre-meeting Teleconference: Fri, Oct. 30 from 8 am EDT

F Forensics Team,
'lease find below details for the pre-meeting teleconference on Fukushima Daiichi forensics.
Date/time]
'ri, Oct. 30, 2015 at 8 am EDT
Fri, Oct. 30 at 9 pm JST)
Call-in information] (Please record your name and organization when joining the call.)
:all number: 718-354-1184 (New York) / 03-6328-1972 (Tokyo)
b)(6)
Agenda (tentative)]
. Introduction of Mr. Takashi Hara, new Washington DC Representative—TEPCO
Hara-san will be participating in the Nov. 9-10 meeting in DC and will be the main contact person in the future.)
:. Briefing on 1F status (with focus on investigation activities)—TEPCO
2-1. Unit 3 drywell internal investigation results (10/22/2015)
http://photo.tepco.co.jp/en/date/2015/201510-e/151022-01e.html
!-2. Other latest information to be posted on TEPCO website tomorrow evening (Thu, Oct. 29 Japan time).
i. Agenda for the Nov. 9-10 Face-to-face meeting—Joy
\ll the best,
(enji

(enji Tateiwa
iafety Engineering Group Manager
'ukushima Daiichi D&D Engineering Company
'okyo Electric Power Company, Inc.
-1-3 Uchisaiwai-cho, Chiyoda-ku
'okyo, Japan
iffice: +81-3-6373-4751
b)(6)
ateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, October 10, 2015 6:44 PM
To: 'Joy Rempe'; 'Basu, Sudhamay'; 'RCBUNT@southernco.com'; 'Michael Corradini'; 'phillip.ellison@ge.com'; 'Mitchell T. Farmer'; 'Frances Marshall'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Lee, Richard'; 'roy.linthicum@exeloncorp.com'; 'btwillia@tva.gov'; 'Peko, Damian'; 'Plys, Martin G'; 'KRAFT, Steven'; 'cristian.rabiti@inl.gov'; 'Bob Lutz'; 'Luangdilok, Wison'; 'Paik@fauske.com'; 'Robb, Kevin R.'; 'Wachowiak, Richard'; 'Yang, Rosa'; 'Kalinich, Donald A'; 'Amway, Phillip M:(GenCo-Nuc)'; 'dlluxat@erineng.com'; 'Marksberry, Don'; 'don.algama@nrc.gov'; 'steven.west@nrc.gov'; 'Richard.Reister@nuclear.energy.gov'; 'Smith-Kevern, Rebecca'; 'Kelly, John E (NE)'; 'Edgardo.Deleon@em.doe.gov'
Cc: 'takashi hara'; 'Yasunori YAMANAKA'; 'yamamoto masayuki'; 'takahashi kosuke'; 'yasutaka.denda@tepco.co.jp';

'kamada.toshinori@tepco.co.jp'; 'sekita.shunsuke@tepco.co.jp'; 'yamauchi.keisuke@tepco.co.jp'; 'takuya.kotaki@tepco.co.jp'; 'mizokami.shinya@tepco.co.jp'; 'murano.kenji@tepco.co.jp'; 'Resident Researcher - Yamada, Daichi'
Subject: [Expert Panel on 1F Forensics] 2nd Trial Teleconference: Thu, Oct. 15 from 6 pm MDT

1F Forensics Team,

Please find below details for the 2nd trial teleconference on Fukushima Daiichi forensics and D&D-related issues.

[Date/time]
Thu, Oct. 15, 2015 at 6 pm MDT/ 7 pm CDT/ 8 pm EDT
(Fri, Oct. 16 at 9 am JST)

[Call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184 (New York) / 03-6328-1972 (Tokyo)
(b)(6)

[Agenda (tentative)] ***Please provide comments.***

1. Briefing on 1F status (with focus on investigation activities)—Kenji

1-1. Preparation for Fuel Debris Removal (10/1/2015)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
(page 1/30) Unit 3 drywell investigation schedule
(pages 4/30-13/30) Unit 1 reactor building 1st floor investigation
(pages 14/30-20/30) Unit 2 drywell penetration shield block removal
(pages 21/30-30/30) Unit 3 drywell equipment hatch investigation

1-2. Radioactive Waste Processing (10/1/2015)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf
(pages 12/27-27/27) Radionuclides analyses of samples taken from Units 1-3 reactor buildings

(FYI, attached is a copy of my notification email for the monthly update call on Oct. 5th.)

2. Agenda for the Nov. 9-10 Face-to-face meeting in DC—Joy

Please let Joy and me know if you can join the call.
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Outside of Scope

Outside of Scope

rom: Tateiwa, Kenji
ent: 30 Oct 2015 18:37:48 +0900
o: 'Joy Rempe';'takashi hara';Basu, Sudhamay;RCBUNT@southernco.com;'Michael Corradini';'phillip :llison';'Mitchell T. Farmer';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;'roy linthicum';btwillia@tva.gov;'Damian' 'Peko';'Martin G' Plys';'Steven' 'KRAFT';'cristian rabiti';'Bob Lutz';'Wison' 'Luangdilok';Paik@fauske.com;'Kevin R.' 'Robb';'Richard' 'Wachowiak';'Rosa' ʼang';'Phillip M 'Amway:(GenCo-Nuc)'';dlluxat@erineng.com;Marksberry, Don;Algama, Don;West, Steven;'Richard Reister';'Rebecca' Smith-Kevern';'John E 'Kelly (NE)'';'Edgardo Deleon';'Yasunori YAMANAKA';'yamamoto masayuki';'takahashi kosuke';'yasutaka lenda';'kamada toshinori';'sekita shunsuke';'yamauchi keisuke';'takuya kotaki';'mizokami shinya';'murano kenji';'Resident Researcher - 'amada, Daichi';Salay, Michael;nandrew@sandia.gov
ubject: [External_Sender] Latest 1F Info. [Expert Panel on 1F Forensics] Pre-meeting Teleconference: Fri, Oct. 30 from 8 m EDT

F Forensics Team,
'lease find below links to TEPCO's website (Japanese) with the latest update on 1F.
Vorking-level Meeting of Decommissioning & Contaminated Water Issues Team (10/29/2015)]
. Preparation for Fuel Removal from Spent Fuel Pools
ittp://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_07-j.pdf
pages 12/29-17/29) Investigation plan for Unit 1 reactor building refueling floor
:. Preparation for Fuel Debris Removal
ittp://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_08-j.pdf
pages 4/45-16/45) Investigation results inside Unit 1 reactor building TIP room
pages 17/45-22/45) Investigation results of contamination in front of Unit 2 reactor building X-6 penetration
pages 23/45-37/45) Investigation results inside Unit 3 drywell
'alk to you in a few hours.
ll the best,
(enji

Outside of Scope

Outside of Scope

From: "Kenji Tateiwa" <tateiwa.kenji@tepco.co.jp>
To: "Joy Rempe" <jlrempe@cableone.net>, "Sudhamay' 'Basu" <Sudhamay.Basu@nrc.gov>, RCBUNT@southernco.com, "Michael Corradini" <corradin@cae.wisc.edu>, "phillip ellison" <phillip.ellison@ge.com>, "Mitchell T. Farmer" <farmer@anl.gov>, "Frances Marshall" (b)(6) "Jeff R. Gabor" <jrgabor@erineng.com>, "Randall O' 'Gauntt" <rogaunt@sandia.gov>, "Richard' 'Lee" <Richard.Lee@nrc.gov>, "roy linthicum" <roy.linthicum@exeloncorp.com>, btwillia@tva.gov, "Damian' 'Peko" <damian.peko@nuclear.energy.gov>, "Martin G' 'Plys" <Plys@Fauske.com>, "Steven' 'KRAFT" <spk@nei.org>, "cristian rabiti" <cristian.rabiti@inl.gov>, "Bob Lutz" <boblutz1630@gmail.com>, "Wison' 'Luangdilok" <Luangdilok@Fauske.com>, Paik@fauske.com, "Kevin R.' 'Robb" <robbkr@ornl.gov>, "Richard' 'Wachowiak" <rwachowiak@epri.com>, "Rosa' 'Yang" <RYANG@epri.com>, "Donald A' 'Kalinich" <dakalin@sandia.gov>, "Phillip M 'Amway:(GenCo-Nuc)'" <phillip.amway@exeloncorp.com>, dlluxat@erineng.com, "Don' 'Marksberry" <Don.Marksberry@nrc.gov>, "don algama" <don.algama@nrc.gov>, "steven west" <steven.west@nrc.gov>, "Richard Reister" <Richard.Reister@nuclear.energy.gov>, "Rebecca' 'Smith-Kevern" <Rebecca.Smith-Kevern@nuclear.energy.gov>, "John E 'Kelly (NE)'" <JohnE.Kelly@Nuclear.Energy.Gov>, "Edgardo Deleon" <Edgardo.Deleon@em.doe.gov>
Cc: "takashi hara" <takashi.hara@tepco.co.jp>, "Yasunori YAMANAKA" <yamanaka.yasunori@tepco.co.jp>, "yamamoto masayuki" <yamamoto.masayuki@tepco.co.jp>, "takahashi kosuke" <takahashi.kosuke@tepco.co.jp>, "yasutaka denda" <yasutaka.denda@tepco.co.jp>, "kamada toshinori" <kamada.toshinori@tepco.co.jp>, "sekita shunsuke" <sekita.shunsuke@tepco.co.jp>, "yamauchi keisuke" <yamauchi.keisuke@tepco.co.jp>, "takuya kotaki" <takuya.kotaki@tepco.co.jp>, "mizokami shinya" <mizokami.shinya@tepco.co.jp>, "murano kenji" <murano.kenji@tepco.co.jp>, "Resident Researcher - Yamada, Daichi" <dyamada@guestresearcher.epri.com>
Sent: Wednesday, October 28, 2015 4:04:28 AM
Subject: [Expert Panel on 1F Forensics] Pre-meeting Teleconference: Fri, Oct. 30 from 8 am EDT

1F Forensics Team,

Please find below details for the pre-meeting teleconference on Fukushima Daiichi forensics.

[Date/time]

Fri, Oct. 30, 2015 at 8 am EDT
(Fri, Oct. 30 at 9 pm JST)
[Call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184 (New York) / 03-6328-1972 (Tokyo)
(b)(6)
[Agenda (tentative)]
1. Introduction of Mr. Takashi Hara, new Washington DC Representative—TEPCO
(Hara-san will be participating in the Nov. 9-10 meeting in DC and will be the main contact person in the future.)
2. Briefing on 1F status (with focus on investigation activities)—TEPCO
 2-1. Unit 3 drywell internal investigation results (10/22/2015)
 http://photo.tepco.co.jp/en/date/2015/201510-e/151022-01e.html
2-2. Other latest information to be posted on TEPCO website tomorrow evening (Thu, Oct. 29 Japan time).
3. Agenda for the Nov. 9-10 Face-to-face meeting—Joy
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, October 10, 2015 6:44 PM
To: 'Joy Rempe'; 'Basu, Sudhamay'; 'RCBUNT@southernco.com'; 'Michael Corradini'; 'phillip.ellison@ge.com'; 'Mitchell T. Farmer'; 'Frances Marshall'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Lee, Richard'; 'roy.linthicum@exeloncorp.com'; 'btwillia@tva.gov'; 'Peko, Damian'; 'Plys, Martin G'; 'KRAFT, Steven'; 'cristian.rabiti@inl.gov'; 'Bob Lutz'; 'Luangdilok, Wison'; 'Paik@fauske.com'; 'Robb, Kevin R.'; 'Wachowiak, Richard'; 'Yang, Rosa'; 'Kalinich, Donald A'; 'Amway, Phillip M:(GenCo-Nuc)'; 'dlluxat@erineng.com'; 'Marksberry, Don'; 'don.algama@nrc.gov'; 'steven.west@nrc.gov'; 'Richard.Reister@nuclear.energy.gov'; 'Smith-Kevern, Rebecca'; 'Kelly, John E (NE)'; 'Edgardo.Deleon@em.doe.gov'
Cc: 'takashi hara'; 'Yasunori YAMANAKA'; 'yamamoto masayuki'; 'takahashi kosuke'; 'yasutaka.denda@tepco.co.jp'; 'kamada.toshinori@tepco.co.jp'; 'sekita.shunsuke@tepco.co.jp'; 'yamauchi.keisuke@tepco.co.jp'; 'takuya.kotaki@tepco.co.jp'; 'mizokami.shinya@tepco.co.jp'; 'murano.kenji@tepco.co.jp'; 'Resident Researcher - Yamada, Daichi'
Subject: [Expert Panel on 1F Forensics] 2nd Trial Teleconference: Thu, Oct. 15 from 6 pm MDT

1F Forensics Team,
Please find below details for the 2nd trial teleconference on Fukushima Daiichi forensics and D&D-related issues.
[Date/time]
Thu, Oct. 15, 2015 at 6 pm MDT/ 7 pm CDT/ 8 pm EDT
(Fri, Oct. 16 at 9 am JST)
[Call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184 (New York) / 03-6328-1972 (Tokyo)
(b)(6)
[Agenda (tentative)] ***Please provide comments.***
1. Briefing on 1F status (with focus on investigation activities)—Kenji
 1-1. Preparation for Fuel Debris Removal (10/1/2015)
 http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
 (page 1/30) Unit 3 drywell investigation schedule
 (pages 4/30-13/30) Unit 1 reactor building 1st floor investigation
 (pages 14/30-20/30) Unit 2 drywell penetration shield block removal

(pages 21/30-30/30) Unit 3 drywell equipment hatch investigation

1-2. Radioactive Waste Processing (10/1/2015)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf

(pages 12/27-27/27) Radionuclides analyses of samples taken from Units 1-3 reactor buildings

(FYI, attached is a copy of my notification email for the monthly update call on Oct. 5th.)

2. Agenda for the Nov. 9-10 Face-to-face meeting in DC—Joy

Please let Joy and me know if you can join the call.

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Outside of Scope

Outside of Scope

From: Tateiwa, Kenji
Sent: 26 Jun 2015 07:46:18 -0400
To: Lee, Richard
Cc: Basu, Sudhamay;rogaunt@sandia.gov
Subject: [External_Sender] RE: courtesy call on July 1st

Dear Richard,
Cc: Sud and Randy,
It was a pleasure having dinner with you and Sud in DC last week.
Thank you for coming over.
As for you and Randy's visit to TEPCO HQ on Wed, July 1, although I would really want to see you there, since it will be my first day on my new job as Safety Engineering Group Manager for 1F decommissioning, I have no clue what my schedule will look like.
Please call my (b)(6) in the afternoon of July 1 and I will see if I can find some time.
Or try my new office number +81-3-6373-4751.
All the best,
Kenji
p.s.
Please forgive my slow response in emails until I settle down in Tokyo next week (taking the June 27 flight from Dulles to Narita.)

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037
tel: +1-202-457-0790 (ext.)116
(b)(6)

From: Lee, Richard [mailto:Richard.Lee@nrc.gov]
Sent: Monday, June 22, 2015 8:08 PM
To: tateiwa.kenji@tepco.co.jp
Subject: courtesy call on July 1st

Dear Kenji:
It was nice for us to meet with you for lunch last week. On July 1st, Randy Gauntt and I will meet with JAEA to discuss its planning on BWR melt progression testing in the morning. We will like to ask whether we can pay a short courtesy visit to you at TEPCO. There are two items that NRAJ asked us for assistance that we believe that we need information from TEPCO in order to do the analysis.
Safe travel to Japan.
Best regards,
Richard

From: Tateiwa, Kenji
Sent: 14 Oct 2015 06:12:30 +0900
To: Marksberry, Don;West, Steven
Cc: 'Joy Rempe';Lee, Richard;Algama, Don;Basu, Sudhamay
Subject: [External_Sender] RE: [Expert Panel on 1F Forensics] 2nd Trial Teleconference: Thu, Oct. 15 from 6 pm MDT

Steve and Don,
Thank you for your replies.
Steve,
Yes, I will keep you on the distribution list.
Don,
Looking forward to talking with you over the phone in a few days.
All the best,
Kenji

Outside of Scope

From: West, Steven
Sent: Tuesday, October 13, 2015 10:11 AM
To: Tateiwa, Kenji
Cc: Marksberry, Don; Algama, Don; damian.peko@nuclear.energy.gov
Subject: RE: [Expert Panel on 1F Forensics] 2nd Trial Teleconference: Thu, Oct. 15 from 6 pm MDT
Kenji,
I have a prior commitment and will not be able to join this call. Please keep me on your distribution for future calls. Thank you.
Steve
Steven West, Deputy Director
Office of Nuclear Regulatory Research
U.S. Nuclear Regulatory Commission
301-415-1914
Steven.West@nrc.gov
From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, October 10, 2015 5:44 AM
To: 'Joy Rempe' <jlrempe@cableone.net>; Basu, Sudhamay <Sudhamay.Basu@nrc.gov>; RCBUNT@southernco.com; 'Michael Corradini' <corradin@cae.wisc.edu>; phillip.ellison@ge.com; 'Mitchell T. Farmer' <farmer@anl.gov>; 'Frances Marshall' (b)(6) 'Jeff R. Gabor' <jrgabor@erineng.com>; 'Randall O' 'Gauntt' <rogaunt@sandia.gov>; Lee, Richard <Richard.Lee@nrc.gov>; roy.linthicum@exeloncorp.com; btwillia@tva.gov; 'Peko, Damian' <damian.peko@nuclear.energy.gov>; 'Plys, Martin G'

<Plys@Fauske.com>; 'KRAFT, Steven' <spk@nei.org>; cristian.rabiti@inl.gov; 'Bob Lutz' (b)(6); 'Luangdilok, Wison' <Luangdilok@Fauske.com>; Paik@fauske.com; 'Robb, Kevin R.' <robbkr@ornl.gov>; 'Wachowiak, Richard' <rwachowiak@epri.com>; 'Yang, Rosa' <RYANG@epri.com>; 'Kalinich, Donald A' <dakalin@sandia.gov>; 'Amway, Phillip M:(GenCo-Nuc)' <phillip.amway@exeloncorp.com>; dlluxat@erineng.com; Marksberry, Don <Don.Marksberry@nrc.gov>; Algama, Don <Don.Algama@nrc.gov>; West, Steven <Steven.West@nrc.gov>; Richard.Reister@nuclear.energy.gov; 'Smith-Kevern, Rebecca' <Rebecca.Smith-Kevern@nuclear.energy.gov>; 'Kelly, John E (NE)' <JohnE.Kelly@Nuclear.Energy.Gov>; Edgardo.Deleon@em.doe.gov
Cc: 'takashi hara' <takashi.hara@tepco.co.jp>; 'Yasunori YAMANAKA' <yamanaka.yasunori@tepco.co.jp>; 'yamamoto masayuki' <yamamoto.masayuki@tepco.co.jp>; 'takahashi kosuke' <takahashi.kosuke@tepco.co.jp>; yasutaka.denda@tepco.co.jp; kamada.toshinori@tepco.co.jp; sekita.shunsuke@tepco.co.jp; yamauchi.keisuke@tepco.co.jp; takuya.kotaki@tepco.co.jp; mizokami.shinya@tepco.co.jp; murano.kenji@tepco.co.jp; 'Resident Researcher - Yamada, Daichi' <dyamada@guestresearcher.epri.com>
Subject: [External_Sender] [Expert Panel on 1F Forensics] 2nd Trial Teleconference: Thu, Oct. 15 from 6 pm MDT

1F Forensics Team,

Please find below details for the 2nd trial teleconference on Fukushima Daiichi forensics and D&D-related issues.

[Date/time]
Thu, Oct. 15, 2015 at 6 pm MDT/ 7 pm CDT/ 8 pm EDT
(Fri, Oct. 16 at 9 am JST)

[Call-in information] (Please record your name and organization when joining the call.)
call number: 718-354-1184 (New York) / 03-6328-1972 (Tokyo)
(b)(6)

[Agenda (tentative)] ***Please provide comments.***

1. Briefing on 1F status (with focus on investigation activities)—Kenji

1-1. Preparation for Fuel Debris Removal (10/1/2015)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
(page 1/30) Unit 3 drywell investigation schedule
(pages 4/30-13/30) Unit 1 reactor building 1st floor investigation
(pages 14/30-20/30) Unit 2 drywell penetration shield block removal
(pages 21/30-30/30) Unit 3 drywell equipment hatch investigation

1-2. Radioactive Waste Processing (10/1/2015)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf
(pages 12/27-27/27) Radionuclides analyses of samples taken from Units 1-3 reactor buildings

(FYI, attached is a copy of my notification email for the monthly update call on Oct. 5th.)

2. Agenda for the Nov. 9-10 Face-to-face meeting in DC—Joy

Please let Joy and me know if you can join the call.

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company

Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Outside of Scope

Page 2187 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
Sent: 19 Sep 2015 15:10:49 +0900
To: 'Joy Rempe';Basu, Sudhamay;RCBUNT@southernco.com;corradin@engr.wisc.edu;'phillip ellison';'Mitchell T. Farmer';'Matthew W.' 'Francis';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;'Linthicum, Roy R.:(GenCo-Nuc)';btwillia@tva.gov;'Damian' 'Peko';'Martin G' 'Plys';'Steven' 'KRAFT';'cristian rabiti';'Bob Lutz';'Wison' 'Luangdilok';Paik@fauske.com;'Kevin R.' 'Robb';'Richard' 'Wachowiak';'Donald A' 'Kalinich';'Amway, Phillip M:(GenCo-Nuc)';dlluxat@erineng.com;Marksberry, Don;West, Steven;Algama, Don;'Resident Researcher - Yamada, Daichi';'Yasunori YAMANAKA';yamamoto.masayuki@tepco.co.jp;takashi.hara@tepco.co.jp;takahashi.kosuke@tepco.co.jp;' ?? ??';'?? ??';'?? ??';'?? ??';'?? ??'
Subject: [External_Sender] RE: Followup From [1F Forensics Report] Trial Teleconference: Thu, Sept. 17 from 5 pm MDT - PLEASE RESPOND BY SEPTEMBER 22 or SOONER

1F Forensics Team,
Thank you for joining the "Trial" teleconference yesterday.
I appreciate everyone's keen interest and passion to be involved in this important undertaking.
Thank you, Joy for the follow-up email.
As for the follow-up item #1, I would like to get your insights on what investigation/measurements would be important from a "Decommissioning Safety" perspective for future activities at Units 1, 2, and 3.
Put another way, we would like to know if there is additional value in certain investigation/measurements on top of "traditional" nuclear safety perspective (focused on operating reactors.)
For example, if there is a way to estimate how much erosion of the pedestal occurred due to MCCI (by chemical analysis of water samples in the drywell or by some other creative means), we may be able to evaluate the long-term seismic robustness of the structure.
We would like to be able to say with some level of confidence that the pedestal will not give way during an earthquake and drop the RPV; at least until we finished removing the fuel debris—in the next several decades (hopefully earlier than that.)
Thank you for allowing us to pick your top-notch brains in advance.
All the best,
Kenji

Outside of Scope

Outside of Scope

On 9/11/2015 8:46 AM, Tateiwa, Kenji wrote:

1F Forensics Team,

Based on my recent discussion with Joy and Mike, we have decided to do a "Trial Teleconference" as a first step towards establishing a framework for experts in the U.S. and Japan to have interactive dialogues on the topic of Fukushima Daiichi forensics and D&D-related issues.

Please find below details for the teleconference.

[Date/time]

Thu, Sept. 17, 2015 at 5 pm MDT/6 pm CDT/7 pm EDT

(Fri, Sept. 18 at 8 am JST)

[Call-in information] (Please record your name and organization when joining the call.)

call number (New York): 718-354-1184

(b)(6)

[Agenda]

1. **Briefing on 1F status (with focus on investigation activities)—Kenji**

1-1. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)

(Japanese)

Preparation for Fuel Debris Removal

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf

1-2. Visual Investigation Results of Unit 3 Primary Containment Equipment Hatch (9/9/2015)

(Japanese)

http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150909_12-j.pdf

(video clip)
http://www.tepco.co.jp/tepconews/library/archive-j.html?video_uuid=aatm0o3t&catid=61699
2. My recent visit to 1F (on Sept. 2) —Kenji
3. Planned DOE work scope (pending FY16 authorization)—Joy
Apologies for the short notice and inconvenient time for those especially in the East Coast.
Please let me know if you can join the call.
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, August 29, 2015 3:41 PM
To: 'Joy Rempe'; 'sudhamay basu'; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Richard' 'Lee'; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'; 'Amway, Phillip M:(GenCo-Nuc)'
Subject: [1F Forensics Report] Requests Incorporated in Unit 3 D/W Inspection Plan
Joy and all,
Some items in the wish list of the Forensics Report have been incorporated in TEPCO's plan to investigate inside the Unit 3 drywell planned in October 2015.
See pages 10/30 to 20/30 of the following presentation (in Japanese.)
3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
I will be covering this material during the next Fukushima Update teleconference on Mon, Aug. 31 from 9 am EDT.
call number (New York): 718-354-1184
(b)(6)
Let me know if you are interested in receiving future notices of my update call (many of you are already on my list.)
All the best,
Kenji

Outside of Scope

Page 2191 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2192 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2193 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2194 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2195 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2196 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

From: Tateiwa, Kenji
Sent: 2 Aug 2015 12:32:44 +0900
To: Basu, Sudhamay
Subject: [External_Sender] RE: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Dear Sud,
Thank you for your quick and positive response to my email.
I appreciate your continued interest in this topic and your support to TEPCO.
All the best,
Kenji

From: Basu, Sudhamay [mailto:Sudhamay.Basu@nrc.gov]
Sent: Friday, July 31, 2015 11:21 PM
To: Tateiwa, Kenji
Subject: RE: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Dear Kenji,
It's good to hear from you. I am glad to hear you are settling down. I am also happy that you will keep the tradition of Fukushima update call. I certainly remain interested. Thank you for the opportunity.
Best regards.
Sud

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 9:47 AM
To: tateiwa.kenji@tepco.co.jp
Subject: [External_Sender] Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,
I hope this email finds you well.
A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.
I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.
I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)
Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.
Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.
[Date/time]

Mon, August 3, 2015 at 9 am U.S. Eastern Daylight Time
(Next call: Mon, Aug. 31 at 9 am EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)

Please let me know if any of you would like to join the call from other countries.

[Major topics]

1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)

1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)

2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html
4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing
** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

Page 2200 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2201 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: "Kenji Tateiwa" <tateiwa.kenji@tepco.co.jp>
To: "Joy Rempe" <jlrempe@cableone.net>
Cc: "sudhamay basu" <sudhamay.basu@nrc.gov>, RCBUNT@southernco.com, corradin@engr.wisc.edu, "phillip ellison" <phillip.ellison@ge.com>, "Mitchell T. Farmer" <farmer@anl.gov>, "Matthew W.' 'Francis" <francismw@ornl.gov>, "Jeff R. Gabor" <jrgabor@erineng.com>, "Randall O' 'Gauntt" <rogaunt@sandia.gov>, "Richard' 'Lee" <Richard.Lee@nrc.gov>, "roy linthicum" <roy.linthicum@exeloncorp.com>, btwillia@tva.gov, "Damian' 'Peko" <damian.peko@nuclear.energy.gov>, "Martin G' 'Plys" <Plys@Fauske.com>, "Resident Researcher – Yamada, Daichi" <dyamada@guestresearcher.epri.com>, "Steven' 'KRAFT" <spk@nei.org>, "cristian rabiti" <cristian.rabiti@inl.gov>, "Bob Lutz" (b)(6) "Wison' 'Luangdilok" <Luangdilok@Fauske.com>, Paik@fauske.com, "Kevin R.' 'Robb" <robbkr@ornl.gov>, "Richard' 'Wachowiak" <rwachowiak@epri.com>, "Yasunori YAMANAKA" <yamanaka.yasunori@tepco.co.jp>, "Donald A' 'Kalinich" <dakalin@sandia.gov>
Sent: Sunday, July 12, 2015 3:08:14 AM
Subject: TEPCO Comments: June 30 Draft of Forensics Report

Joy and all,

I am finally catching up with the massive backlog of emails that I had to respond during my transition period.

Please find below some comments on the draft report dated 6-30-15.

(Including those comments from Daichi Yamada.)

(p.22/102)

"Appendix D contains roadmaps produced by TEPCO that detail planned D&D activities."

Change to:
"Appendix D contains roadmaps produced by the Japanese Government that detail planned D&D activities."
(p. 31/102)
"dose rates (in mSv/hr) are being obtained from Unit 1 using gamma cameras"
Change to:
"dose rates (in mSv/hr) are being obtained from Unit 1 using dosimeter mounted on a robot"
(p. 36/102 and 50/102)
Inside of the box of "Stakeholder Socialization" in Figure 14.
Add "METI."
(p. 69/102)
PC-12 "To determine if failure of TIP tubes and SRV/IRM tubes outside the RPV led to depressurization"
àAlthough we have not conducted direct investigation into this issue, we had attempted to insert a fiber scope through the TIP guide tube of Unit 2.
However, the fiber scope got stuck at the TIP indexer and could not get pass that location.
http://photo.tepco.co.jp/en/date/2013/201307-e/130708-02e.html
(p. 75/102 and 86/102)
"Inspect sampling of Daiichi U5 and U6 irradiated fuel to evaluate if any damage from shortterm temperature/pressure excursion"
àSince the RPV pressure was controlled within the safety valve lift pressure and the fuels never got exposed, there may not be any interesting findings.
(p. 101/102)
"Inspect containment vent line if used for venting during post ELAP event response. Determine condition of rupture disc."
àVenting did not take place at Diani.
"Determine degree of galvanized and aluminum oxidation in the primary containment and evaluate in terms of a source for hydrogen production."
àThis should be done at Daini.
All the best,
Kenji
(Please ignore the error message you might receive from my DC office email account that has been disabled.)

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6) [redacted]
tateiwa.kenji@tepco.co.jp

Page 2204 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

Page 2206 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2207 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

From: Tateiwa, Kenji
Sent: 28 Aug 2015 23:21:53 +0900
To: 'Tateiwa, Kenji'
Subject: [External_Sender] [TEPCO Fukushima Update Call] Mon, Aug. 31, 2015 at 9 am EDT/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, August 31, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: **Mon, Oct. 5 at 9 am EDT**.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)

Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. Nuclear Reform Monitoring Committee (8/24/2015)
(English)
http://www.nrmc.jp/en/report/detail/1258279_5233.html
1-1. Current status of Fukushima Daiichi
http://www.nrmc.jp/en/report/detail/_icsFiles/afieldfile/2015/08/24/E2.pdf
1-2. Overview of Nuclear Safety Reform Plan Progress Report
http://www.nrmc.jp/en/report/detail/_icsFiles/afieldfile/2015/08/24/E6.pdf
2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/25/2015)
(Japanese)
2-1. Seawater and Ground Water Sampling Results (10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_03-j.pdf
2-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_04-j.pdf
2-3. Unit 3 SFP Large Rubble Removal Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_05-j.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2015/201508-e/150804-01e.html
2-4. Action Plan for Offsite Impact Risks
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_06-j.pdf
2-5. Disclosure of All Radiation-related Data
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_09-j.pdf
(related website)
http://www.tepco.co.jp/decommision/planaction/monitoring2/index-j.html
2-6. Progress on Contaminated Water Issues (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_13-j.pdf
3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)
3-1. Plant Status

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_04-j.pdf
3-2. Summary Status of Decommissioning Roadmap (file size: 9 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_05-j.pdf
(English translation as of 7/30/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150730_01-e.pdf
3-3. Contaminated Water Issues (file size: 23 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_06-j.pdf
3-4. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_07-j.pdf
3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
3-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_09-j.pdf
3-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_10-j.pdf
3-8. Environmental Radiation Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_11-j.pdf
** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,
I hope this email finds you well.
A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.
I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.
I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.

I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)
Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.
Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.
[Date/time]
Mon, August 3, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: Mon, Aug. 31 **at 9 am** EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf
1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf
1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf
1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf
1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf
2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf
2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf
2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf
2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf
2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf
2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf
2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf
2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf
2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf
3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html
4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing
All the best,
Kenji

From: Tateiwa, Kenji
Sent: 30 Oct 2015 20:07:09 +0900
To: 'Tateiwa, Kenji'
Subject: [External_Sender] [TEPCO Fukushima Update Call] Mon, Nov. 2, 2015 at 8 am EST/1 pm GMT/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, Nov. 2, 2015 at **8 am U.S. Eastern Standard Time**
1 pm Greenwich Mean Time
10 pm Japan Standard Time
(Next call: **Mon, Nov. 30 at 8 am EST/1 pm GMT/10 pm JST**.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6) [redacted]
Please let me know if any of you would like to join the call from other countries.
[Major topics] ***I will be focusing primarily on safety-related topics, but feel free to contact me for any questions.***
Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/29/2015)
(Japanese)
1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_04-j.pdf
2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_05-j.pdf
(English translation as of 10/1/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d151001_01-e.pdf
3. Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_06-j.pdf
4. Preparation for Fuel Removal from Spent Fuel Pools
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_07-j.pdf
(pages 12/29-17/29) Investigation plan for Unit 1 reactor building refueling floor
5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_08-j.pdf
(pages 4/45-16/45) Investigation results inside Unit 1 reactor building TIP room
(pages 17/45-22/45) Investigation results of contamination in front of Unit 2 reactor building X-6 penetration
(pages 23/45-37/45) Investigation results inside Unit 3 drywell
6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_09-j.pdf
7. Circulating Water Core Cooling System

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_10-j.pdf
8. Environmental Radiation Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_11-j.pdf
9. Inspection Results of Units-1/2 Main Exhaust Stack
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_15-j.pdf
10. Opening of the Naraha Remote Technology Development Center
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_13-j.pdf
(English article by JAIF)
http://www.jaif.or.jp/en/jaeas-naraha-remote-technology-development-center-opens-with-prime-minister-attending/
[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html
** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, October 2, 2015 10:09 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Oct. 5, 2015 at 9 am EDT/2 pm BST/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, Oct. 5, 2015 at **9 am U.S. Eastern Daylight Time**
2 pm British Summer Time
10 pm Japan Standard Time
(Next call: **Mon, Nov. 2 at 8 am EST/1 pm GMT/10 pm JST**.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)

Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (9/28/2015)
(Japanese)
1-1. Seawater and Ground Water Sampling Results (8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_03-j.pdf
1-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_04-j.pdf
1-3. Solid Radioactive Waste Storage
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_09-j.pdf
1-4. Progress on Contaminated Water Issues (14 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_13-j.pdf
2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/1/2015)
(Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_04-j.pdf
2-2. Summary Status of Decommissioning Roadmap (file size: 8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_05-j.pdf
(English translation as of 8/27/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150827_01-e.pdf
2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_06-j.pdf
2-4. Preparation for Fuel Removal from Spent Fuel Pools (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_07-j.pdf
2-5. Preparation for Fuel Debris Removal (5 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf
2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_10-j.pdf
2-8. Environmental Radiation Issues (file size: 17 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_11-j.pdf
3. "A Study of the Fukushima Daiichi Nuclear Accident Process"
English translation of a book written by Dr. Michio Ishikawa, a world-renowned nuclear safety expert. Although TEPCO does not necessarily agree with all of his hypotheses in this book, we believe it provides valuable insights.
http://www.springer.com/us/book/9784431555421
[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html
** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, August 28, 2015 11:22 PM

To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Aug. 31, 2015 at 9 am EDT/10 pm JST

Friends and Colleagues,

Greetings from Tokyo.

Please find below information for the next Fukushima Update Call.

[Date/time]

Mon, August 31, 2015 at **9 am U.S. Eastern Daylight Time**

(Next call: **Mon, Oct. 5 at 9 am EDT**.)

[call-in information] (Please record your name and organization when joining the call.)

call number (New York): 718-354-1184

(b)(6)

Please let me know if any of you would like to join the call from other countries.

[Major topics]

1. Nuclear Reform Monitoring Committee (8/24/2015)

(English)

http://www.nrmc.jp/en/report/detail/1258279_5233.html

1-1. Current status of Fukushima Daiichi

http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E2.pdf

1-2. Overview of Nuclear Safety Reform Plan Progress Report

http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E6.pdf

2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/25/2015)

(Japanese)

2-1. Seawater and Ground Water Sampling Results (10 MB)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_03-j.pdf

2-2. Unit 1 Reactor Building Cover Dismantling Work

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_04-j.pdf

2-3. Unit 3 SFP Large Rubble Removal Work

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_05-j.pdf

(video clip)

http://photo.tepco.co.jp/en/date/2015/201508-e/150804-01e.html

2-4. Action Plan for Offsite Impact Risks

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_06-j.pdf

2-5. Disclosure of All Radiation-related Data

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_09-j.pdf

(related website)

http://www.tepco.co.jp/decommision/planaction/monitoring2/index-j.html

2-6. Progress on Contaminated Water Issues (15 MB)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_13-j.pdf

3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)

(Japanese)

3-1. Plant Status

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_04-j.pdf

3-2. Summary Status of Decommissioning Roadmap (file size: 9 MB)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_05-j.pdf

(English translation as of 7/30/2015)

http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150730_01-e.pdf
3-3. Contaminated Water Issues (file size: 23 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_06-j.pdf
3-4. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_07-j.pdf
3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
3-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_09-j.pdf
3-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_10-j.pdf
3-8. Environmental Radiation Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_11-j.pdf
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,
I hope this email finds you well.
A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.
I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.
I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)
Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.
Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.
[Date/time]
Mon, August 3, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: Mon, Aug. 31 **at 9 am** EDT.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. Contaminated Water Treatment Committee (7/29/2015)

(only in Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf
1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf
1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf
1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf
1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf
2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf
2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf
2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf
2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf
2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf
2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf
2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf
2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf
2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf
2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf
3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html
4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing
All the best,
Kenji

From: Tateiwa, Kenji
Sent: 27 Nov 2015 23:44:08 +0900
To: 'Tateiwa, Kenji'
Subject: [External_Sender] [TEPCO Fukushima Update Call] Mon, Nov. 30, 2015 at 8 am EST/1 pm GMT/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, Nov. 30, 2015 at **8 am U.S. Eastern Standard Time**
1 pm Greenwich Mean Time
10 pm Japan Standard Time
(Next call: **Mon, Jan. 4, 2016 at 8 am EST/1 pm GMT/10 pm JST**.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)
Please let me know if any of you would like to join the call from other countries.
[Major topics] ***I will be focusing primarily on safety-related topics, but feel free to contact me for any questions.***
1. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (11/26/2015)
(Japanese)
1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_04-j.pdf
1-2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_05-j.pdf
(English translation as of 10/29/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d151029_01-e.pdf
1-3. Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_06-j.pdf
1-4. Preparation for Fuel Removal from Spent Fuel Pools
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_07-j.pdf
(pages 10-27/57) Unit 2 reactor building upper part dismantling plan
(pages 28-43/57) Unit 3 refueling floor gamma spectroscopy results
1-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_08-j.pdf
(pages 3-10/19)Unit 3 PCV equipment hatch investigation plan by a compact robot
(pages 11-19/19) Unit 2 PCV internal investigation preparation status (decontamination near X-6 penetration)
1-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_09-j.pdf
1-7. Circulating Water Core Cooling System

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_10-j.pdf
(pages 3-6/6)Unit 3 PCV permanent instrumentation installation plan
1-8. Environmental Radiation Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151126_11-j.pdf

2. Unit 3 PCV equipment hatch investigation results by a compact robot (11/27/2015)
(Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_151127_08-j.pdf
[Video clip]
http://www.tepco.co.jp/tepconews/library/archive-j.html?video_uuid=mzmm5d4k&catid=61699

[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html

** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881

*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*

All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, October 30, 2015 8:07 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Nov. 2, 2015 at 8 am EST/1 pm GMT/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.

[Date/time]
Mon, Nov. 2, 2015 at **8 am U.S. Eastern Standard Time**
1 pm Greenwich Mean Time
10 pm Japan Standard Time
(Next call: **Mon, Nov. 30 at 8 am EST/1 pm GMT/10 pm JST**.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)

Please let me know if any of you would like to join the call from other countries.
[Major topics] ***I will be focusing primarily on safety-related topics, but feel free to contact me for any questions.***
Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/29/2015)
(Japanese)
1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_04-j.pdf
2. Summary Status of Decommissioning Roadmap
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_05-j.pdf
(English translation as of 10/1/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d151001_01-e.pdf
3. Contaminated Water Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_06-j.pdf
4. Preparation for Fuel Removal from Spent Fuel Pools
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_07-j.pdf
(pages 12/29-17/29) Investigation plan for Unit 1 reactor building refueling floor
5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_08-j.pdf
(pages 4/45-16/45) Investigation results inside Unit 1 reactor building TIP room
(pages 17/45-22/45) Investigation results of contamination in front of Unit 2 reactor building X-6 penetration
(pages 23/45-37/45) Investigation results inside Unit 3 drywell
6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_09-j.pdf
7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_10-j.pdf
8. Environmental Radiation Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_11-j.pdf
9. Inspection Results of Units-1/2 Main Exhaust Stack
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_15-j.pdf
10. Opening of the Naraha Remote Technology Development Center
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151029_13-j.pdf
(English article by JAIF)
http://www.jaif.or.jp/en/jaeas-naraha-remote-technology-development-center-opens-with-prime-minister-attending/
[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, October 2, 2015 10:09 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Oct. 5, 2015 at 9 am EDT/2 pm BST/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.

[Date/time]
Mon, Oct. 5, 2015 at **9 am U.S. Eastern Daylight Time**
2 pm British Summer Time
10 pm Japan Standard Time
(Next call: **Mon, Nov. 2 at 8 am EST/1 pm GMT/10 pm JST**.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)
Please let me know if any of you would like to join the call from other countries.

[Major topics]
1. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (9/28/2015)
(Japanese)
1-1. Seawater and Ground Water Sampling Results (8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_03-j.pdf
1-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_04-j.pdf
1-3. Solid Radioactive Waste Storage
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_09-j.pdf
1-4. Progress on Contaminated Water Issues (14 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_13-j.pdf
2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/1/2015)
(Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_04-j.pdf
2-2. Summary Status of Decommissioning Roadmap (file size: 8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_05-j.pdf
(English translation as of 8/27/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150827_01-e.pdf
2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_06-j.pdf
2-4. Preparation for Fuel Removal from Spent Fuel Pools (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_07-j.pdf
2-5. Preparation for Fuel Debris Removal (5 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf
2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_10-j.pdf
2-8. Environmental Radiation Issues (file size: 17 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_11-j.pdf
3. "A Study of the Fukushima Daiichi Nuclear Accident Process"
English translation of a book written by Dr. Michio Ishikawa, a world-renowned nuclear safety expert.

Although TEPCO does not necessarily agree with all of his hypotheses in this book, we believe it provides valuable insights.
http://www.springer.com/us/book/9784431555421
[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html
** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, August 28, 2015 11:22 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Aug. 31, 2015 at 9 am EDT/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, August 31, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: **Mon, Oct. 5 at 9 am EDT**.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6) [redacted]
Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. Nuclear Reform Monitoring Committee (8/24/2015)
(English)
http://www.nrmc.jp/en/report/detail/1258279_5233.html
1-1. Current status of Fukushima Daiichi
http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E2.pdf
1-2. Overview of Nuclear Safety Reform Plan Progress Report
http://www.nrmc.jp/en/report/detail/__icsFiles/afieldfile/2015/08/24/E6.pdf
2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/25/2015)
(Japanese)
2-1. Seawater and Ground Water Sampling Results (10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_03-j.pdf
2-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_04-j.pdf
2-3. Unit 3 SFP Large Rubble Removal Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_05-j.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2015/201508-e/150804-01e.html
2-4. Action Plan for Offsite Impact Risks
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_06-j.pdf
2-5. Disclosure of All Radiation-related Data

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_09-j.pdf
(related website)
http://www.tepco.co.jp/decommision/planaction/monitoring2/index-j.html
2-6. Progress on Contaminated Water Issues (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_13-j.pdf
3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_04-j.pdf
3-2. Summary Status of Decommissioning Roadmap (file size: 9 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_05-j.pdf
(English translation as of 7/30/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150730_01-e.pdf
3-3. Contaminated Water Issues (file size: 23 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_06-j.pdf
3-4. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_07-j.pdf
3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
3-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_09-j.pdf
3-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_10-j.pdf
3-8. Environmental Radiation Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_11-j.pdf
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,
I hope this email finds you well.
A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.
I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.
I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.
I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.
(Attached, FYI, is an email that I sent out last month from DC.)
Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.
I would also be happy to answer any questions separate from the call.

[Date/time]

Mon, August 3, 2015 at **9 am U.S. Eastern Daylight Time**

(Next call: Mon, Aug. 31 **at 9 am EDT**.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184

(b)(6)

Please let me know if any of you would like to join the call from other countries.

[Major topics]

1. Contaminated Water Treatment Committee (7/29/2015)
(only in Japanese)

1-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)
(only in Japanese)

2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf

2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf

2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf

2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf

2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf

2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf

2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf

2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf

2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf

3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)

http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html

4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)

https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing

All the best,

Kenji

From: Tateiwa, Kenji
Sent: 2 Oct 2015 22:08:33 +0900
To: 'Tateiwa, Kenji'
Subject: [External_Sender] [TEPCO Fukushima Update Call] Mon, Oct. 5, 2015 at 9 am EDT/2 pm BST/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, Oct. 5, 2015 at **9 am U.S. Eastern Daylight Time**
2 pm British Summer Time
10 pm Japan Standard Time
(Next call: **Mon, Nov. 2 at 8 am EST/1 pm GMT/10 pm JST**.)

[call-in information] (Please record your name and organization when joining the call.)
call number
(New York): 718-354-1184
(London) 020-7365-4166
(Tokyo) 03-6328-1974
(b)(6)
Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (9/28/2015)
(Japanese)
1-1. Seawater and Ground Water Sampling Results (8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_03-j.pdf
1-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_04-j.pdf
1-3. Solid Radioactive Waste Storage
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_09-j.pdf
1-4. Progress on Contaminated Water Issues (14 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150928_13-j.pdf
2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (10/1/2015)
(Japanese)
2-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_04-j.pdf
2-2. Summary Status of Decommissioning Roadmap (file size: 8 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_05-j.pdf
(English translation as of 8/27/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150827_01-e.pdf
2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_06-j.pdf
2-4. Preparation for Fuel Removal from Spent Fuel Pools (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_07-j.pdf
2-5. Preparation for Fuel Debris Removal (5 MB)

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_08-j.pdf
2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_09-j.pdf
2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_10-j.pdf
2-8. Environmental Radiation Issues (file size: 17 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d151001_11-j.pdf
3. "A Study of the Fukushima Daiichi Nuclear Accident Process"
English translation of a book written by Dr. Michio Ishikawa, a world-renowned nuclear safety expert.
Although TEPCO does not necessarily agree with all of his hypotheses in this book, we believe it provides valuable insights.
http://www.springer.com/us/book/9784431555421
[Reference] TEPCO Decommissioning Website
http://www.tepco.co.jp/en/decommision/index-e.html
** If you cannot display Japanese characters, please install the following font packs:*
http://www.adobe.com/support/downloads/detail.jsp?ftpID=4881
*** Let me know if any of your colleagues or friends would like to be added to this distribution list.*
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, August 28, 2015 11:22 PM
To: 'Tateiwa, Kenji'
Subject: [TEPCO Fukushima Update Call] Mon, Aug. 31, 2015 at 9 am EDT/10 pm JST

Friends and Colleagues,
Greetings from Tokyo.
Please find below information for the next Fukushima Update Call.
[Date/time]
Mon, August 31, 2015 at **9 am U.S. Eastern Daylight Time**
(Next call: **Mon, Oct. 5 at 9 am EDT**.)

[call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
Please let me know if any of you would like to join the call from other countries.
[Major topics]
1. Nuclear Reform Monitoring Committee (8/24/2015)

(English)
http://www.nrmc.jp/en/report/detail/1258279_5233.html
1-1. Current status of Fukushima Daiichi
http://www.nrmc.jp/en/report/detail/_icsFiles/afieldfile/2015/08/24/E2.pdf
1-2. Overview of Nuclear Safety Reform Plan Progress Report
http://www.nrmc.jp/en/report/detail/_icsFiles/afieldfile/2015/08/24/E6.pdf
2. On-Site Coordination Meeting on Decommissioning & Contaminated Water Issues (8/25/2015)
(Japanese)
2-1. Seawater and Ground Water Sampling Results (10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_03-j.pdf
2-2. Unit 1 Reactor Building Cover Dismantling Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_04-j.pdf
2-3. Unit 3 SFP Large Rubble Removal Work
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_05-j.pdf
(video clip)
http://photo.tepco.co.jp/en/date/2015/201508-e/150804-01e.html
2-4. Action Plan for Offsite Impact Risks
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_06-j.pdf
2-5. Disclosure of All Radiation-related Data
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_09-j.pdf
(related website)
http://www.tepco.co.jp/decommision/planaction/monitoring2/index-j.html
2-6. Progress on Contaminated Water Issues (15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/l150825_13-j.pdf
3. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)
3-1. Plant Status
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_04-j.pdf
3-2. Summary Status of Decommissioning Roadmap (file size: 9 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_05-j.pdf
(English translation as of 7/30/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150730_01-e.pdf
3-3. Contaminated Water Issues (file size: 23 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_06-j.pdf
3-4. Spent Fuel Pool Issues
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_07-j.pdf
3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
3-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_09-j.pdf
3-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_10-j.pdf
3-8. Environmental Radiation Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_11-j.pdf
All the best,
Kenji

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Friday, July 31, 2015 10:47 PM
To: tateiwa.kenji@tepco.co.jp
Subject: Please reply to sign up [TEPCO Fukushima Update Call] Mon, Aug. 3, 2015 at 9am EDT/10pm JST

Friends and Colleagues,

I hope this email finds you well.

A month has passed since I made the transition from TEPCO's Washington DC office to the Tokyo HQ as Safety Engineering Group Manager of Fukushima Daiichi D&D Engineering Company.

I intend to resume the "Fukushima Update Call" that I had been hosting on a weekly-basis since early 2012 to update interested professionals (from the industry, government sector, academia, etc.) on the latest situation at Fukushima Daiichi.

I will be sending out email notification to participants prior to the call with links to the most important topics that I will verbally cover during the call.

I endeavor to host future calls on a monthly basis, with a target duration of about 30 minutes, including Q&A.

(Attached, FYI, is an email that I sent out last month from DC.)

Please reply to this email if you and/or your colleagues would like to be included in the distribution list for future calls.

Feel free to join the call whenever you find topics of interest to you.

I would also be happy to answer any questions separate from the call.

[Date/time]

Mon, August 3, 2015 at **9 am U.S. Eastern Daylight Time**

(Next call: Mon, Aug. 31 **at 9 am EDT**.)

[call-in information] (Please record your name and organization when joining the call.)

call number (New York): 718-354-1184

(b)(6)

Please let me know if any of you would like to join the call from other countries.

[Major topics]

1. Contaminated Water Treatment Committee (7/29/2015)

(only in Japanese)

1-1. Plant Status

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_03-j.pdf

1-2. Progress of Contaminated Water Treatment and Risk Map

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_04-j.pdf

1-3. Frozen Soil Wall Taskforce

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_05-j.pdf

1-4. High-Performance ALPS Taskforce

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_06-j.pdf

1-5. Tritiated Water Taskforce

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/c150729_07-j.pdf

2. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (7/30/2015)

(only in Japanese)

2-1. Plant Status

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_04-j.pdf

2-2. Summary Status of Decommissioning Roadmap (file size: 11 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_05-j.pdf
(English translation as of 6/25/2015)
http://www.tepco.co.jp/en/nu/fukushima-np/roadmap/images/d150625_01-e.pdf
2-3. Contaminated Water Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_06-j.pdf
2-4. Spent Fuel Pool Issues (file size: 10 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_07-j.pdf
2-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_08-j.pdf
2-6. Radioactive Waste Processing
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_09-j.pdf
2-7. Circulating Water Core Cooling System
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_10-j.pdf
2-8. Environmental Radiation Issues (file size: 15 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_11-j.pdf
2-9. Work Environment Improvement
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_12-j.pdf
2-10. Summary of 1st Decommissioning R&D Collaboration Council (file size: 28 MB)
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150730_15-j.pdf
3. Completion of Removal of Highly-Contaminated Water from Seawater Piping Trenches (7/30/2015)
http://www.tepco.co.jp/en/press/corp-com/release/2015/1256382_6844.html
4. 160-page Presentation on Fukushima Accident (6/15/2015@Harvard University)
https://drive.google.com/file/d/0B3xzjqQbkug9aU9tX0FJS2pPenM/view?usp=sharing
All the best,
Kenji

From: Tateiwa, Kenji
Sent: 26 Jun 2015 19:55:20 -0400
To: tateiwa.kenji@tepco.co.jp
Subject: [External_Sender] [Transition from DC to Tokyo] New Role in Decommissioning Safety

Dear Friends and Colleagues,
Today will be my last day working out of the Washington DC Office of TEPCO.
After spending 4 productive years in DC, I will be departing the U.S. on Sat, June 27 and start working at TEPCO's Tokyo HQ on July 1 as Safety Engineering Group Manager of Fukushima Daiichi Decontamination & Decommissioning Engineering Company.
Thank you for your continued support to TEPCO after the Fukushima Daiichi accident in March 2011.
We could not have made it thus far without all your support.
For your information, you can find my latest interview on the online Nuclear Plant Journal describing the current status of Fukushima Daiichi.
http://digitaleditions.nuclearplantjournal.com/MJ15/#32
Feel free to contact me should you have any questions related to Fukushima.
I look forward to keeping in touch.
All the best,
Kenji
p.s.
Please forgive my slow response in emails for the next few weeks while I make my transition back to Japan.

Kenji Tateiwa
email: tateiwa.kenji@tepco.co.jp
LinkedIn: https://www.linkedin.com/in/ktateiwa
--------------------------]
(From Sep. 2011 to June 2015)
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
(From July 2015)
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
tel: +81-3-6373-4751

From: Tateiwa, Kenji
Sent: 9 Jun 2015 19:57:46 -0400
To: Lee, Richard;Basu, Sudhamay
Subject: [NRC-TEPCO Lunch] Thu, June 18th noon at District Commons
Importance: Normal

Hi Sud and Richard,
Thank you for your confirmation.
I booked a table for 3 at District Commons (2200 Pennsylvania Avenue, N.W.) on Thu, June 18th at 12 noon.
Could you let me know your cell numbers in case of emergency?
Looking forward to seeing you then.
All the best,
Kenji

----- Original Message -----
From: Basu, Sudhamay
To: Lee, Richard ; Tateiwa, Kenji
Sent: Thursday, June 04, 2015 4:59 PM
Subject: RE: Hello and meeting

Hi Kenji,
I will be available also and District Commons sounds good. Looking forward.
Best regrads.
Sud

From: Lee, Richard
Sent: Thursday, June 04, 2015 4:42 PM
To: Tateiwa, Kenji
Cc: Basu, Sudhamay
Subject: RE: Hello and meeting

Hi, Kenji:
I am available. I will be leaving for Tokyo the next day for the BSAF meeting.
Best regards,
Richard

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Thursday, June 04, 2015 4:32 PM
To: Lee, Richard; Basu, Sudhamay
Subject: Re: Hello and meeting

Dear Sud and Richard,
Thank you for asking me out of lunch.
Would Thu, June 18 at 12 noon work for you?
(That is the only day I am available for lunch that week.)
How about District Commons (2200 Pennsylvania Avenue, N.W.)?
http://www.yelp.com/biz/district-commons-washington-3
If it sounds OK, I will go ahead and make a reservation for a table for 3.
All the best,
Kenji

Kenji Tateiwa
Manager, Nuclear Power Programs
Tokyo Electric Power Company
Washington Office
2121 K Street, NW, Suite 910
Washington, DC 20037

tel: +1-202-457-0790 (ext.)116
(b)(6)

----- Original Message -----
From: Basu, Sudhamay
To: tateiwa.kenji@tepco.co.jp
Cc: Lee, Richard
Sent: Wednesday, June 03, 2015 12:27 PM
Subject: Hello and meeting

Dear Kenji,

Before you take off, Richard and I thought it would be good to meet with you sometime for lunch. How is your calendar looking like the week of June 15. Any day that week will work for us and we will go to your office. Thanks.

Regards.

Sud

From: Tateiwa, Kenji
Sent: 22 Sep 2015 21:44:29 +0900
To: 'Farmer, Mitchell T.';'Michael Corradini';'Joy L Rempe';Basu, Sudhamay;'Bunt, Randy C.';'phillip ellison';'Matthew W.' 'Francis';'Jeff R. Gabor';'Randall O' 'Gauntt';Lee, Richard;'Linthicum, Roy R.:(GenCo-Nuc)';'Williamson, Bill T II';'Damian Peko';'Marty Plys';'Steven KRAFT';'cristian rabiti';'Bob Lutz';'Wison' 'Luangdilok';'Paik, Chan Y';'Kevin R.' 'Robb';'Rick Wachowiak';'Donald A' 'Kalinich';'Amway, Phillip M:(GenCo-Nuc)';'David L. Luxat';Marksberry, Don;West, Steven;Algama, Don;'Resident Researcher - Yamada, Daichi';'Yasunori YAMANAKA';yamamoto.masayuki@tepco.co.jp;takashi.hara@tepco.co.jp;takahashi.kosuke@tepco.co.jp;'?? ??';'?? ??';'Grandy, Christopher';'?? ??';'?? ??';'?? ??'
Subject: [External_Sender] RE: Followup From [1F Forensics Report] Trial Teleconference: Thu, Sept. 17 from 5 pm MDT - PLEASE RESPOND BY SEPTEMBER 22 or SOONER

Hi all,
Thank you, Mitch, Mike, and Sud for your insights.
Mike, we are still struggling to remove the shield block to get access into the Unit 2 drywell, where we are planning to look inside the pedestal region.
It will probably take a few more months.
Mitch, your idea about using ultrasonic for concrete diagnostic may be worth exploring.
Kevin, can you share with us your NURETH presentation that Mitch mentioned?
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

(b)(6)

Outside of Scope

On Sep 19, 2015, at 1:10 AM, Tateiwa, Kenji <tateiwa.kenji@tepco.co.jp> wrote:
1F Forensics Team,
Thank you for joining the "Trial" teleconference yesterday.
I appreciate everyone's keen interest and passion to be involved in this important undertaking.
Thank you, Joy for the follow-up email.
As for the follow-up item #1, I would like to get your insights on what investigation/measurements would be important from a "Decommissioning Safety" perspective for future activities at Units 1, 2, and 3.
Put another way, we would like to know if there is additional value in certain investigation/measurements on top of "traditional" nuclear safety perspective (focused on operating reactors.)
For example, if there is a way to estimate how much erosion of the pedestal occurred due to MCCI (by chemical analysis of water samples in the drywell or by some other creative means), we may be able to evaluate the long-term seismic robustness of the structure.

We would like to be able to say with some level of confidence that the pedestal will not give way during an earthquake and drop the RPV; at least until we finished removing the fuel debris—in the next several decades (hopefully earlier than that.)
Thank you for allowing us to pick your top-notch brains in advance.
All the best,
Kenji

Outside of Scope

On 9/11/2015 8:46 AM, Tateiwa, Kenji wrote:

1F Forensics Team,
Based on my recent discussion with Joy and Mike, we have decided to do a "Trial Teleconference" as a first step towards establishing a framework for experts in the U.S. and Japan to have interactive dialogues on the topic of Fukushima Daiichi forensics and D&D-related issues.
Please find below details for the teleconference.

[Date/time]
Thu, Sept. 17, 2015 at 5 pm MDT/6 pm CDT/7 pm EDT
(Fri, Sept. 18 at 8 am JST)

[Call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)

[Agenda]
1. **Briefing on 1F status (with focus on investigation activities)—Kenji**
1-1. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)
Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
1-2. Visual Investigation Results of Unit 3 Primary Containment Equipment Hatch (9/9/2015)
(Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150909_12-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/archive-j.html?video_uuid=aatm0o3t&catid=61699
2. **My recent visit to 1F (on Sept. 2) —Kenji**
3. **Planned DOE work scope (pending FY16 authorization)—Joy**

Apologies for the short notice and inconvenient time for those especially in the East Coast.
Please let me know if you can join the call.
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp

From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, August 29, 2015 3:41 PM
To: 'Joy Rempe'; 'sudhamay basu'; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Richard' 'Lee'; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'; 'Amway, Phillip M:(GenCo-Nuc)'

Subject: [1F Forensics Report] Requests Incorporated in Unit 3 D/W Inspection Plan

Joy and all,

Some items in the wish list of the Forensics Report have been incorporated in TEPCO's plan to investigate inside the Unit 3 drywell planned in October 2015. See pages 10/30 to 20/30 of the following presentation (in Japanese.)

3-5. Preparation for Fuel Debris Removal

http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf

I will be covering this material during the next Fukushima Update teleconference on Mon, Aug. 31 from 9 am EDT.

call number (New York): 718-354-1184

(b)(6)

Let me know if you are interested in receiving future notices of my update call (many of you are already on my list.)

All the best,

Kenji

Outside of Scope

On 8/5/2015 7:10 PM, Tateiwa, Kenji wrote:

> Joy and all,
>
> I have been involved in TEPCO's internal meetings to discuss what investigation should be done when conducting various entries into the reactor buildings and primary containments of 1F.
>
> I provided the draft Forensics Report to my colleagues in charge of such investigations (their focus is fuel debris removal), and they are willing to take into consideration the requests included in the report (to the extent possible.)
>
> They may ask you for clarification on why you would like to obtain certain information.
>
> Although the rationale of your requests is described in the report, it may not be sufficient to justify the additional burden.
>
> I will let you know when my colleagues come up with specific questions.
>
> It may make sense to set up a teleconference between the TEPCO fuel debris removal team and your team at some point.

All the best,
Kenji

Outside of Scope

Page 2241 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2242 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2243 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2244 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

Page 2246 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2247 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2248 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope

On 9/11/2015 8:46 AM, Tateiwa, Kenji wrote:

1F Forensics Team,
Based on my recent discussion with Joy and Mike, we have decided to do a "Trial Teleconference" as a first step towards establishing a framework for experts in the U.S. and Japan to have interactive dialogues on the topic of Fukushima Daiichi forensics and D&D-related issues.
Please find below details for the teleconference.

[Date/time]
Thu, Sept. 17, 2015 at 5 pm MDT/6 pm CDT/7 pm EDT
(Fri, Sept. 18 at 8 am JST)

[Call-in information] (Please record your name and organization when joining the call.)
call number (New York): 718-354-1184
(b)(6)
[Agenda]
1. **Briefing on 1F status (with focus on investigation activities)—Kenji**
1-1. Working-level Meeting of Decommissioning & Contaminated Water Issues Team (8/27/2015)
(Japanese)
Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
1-2. Visual Investigation Results of Unit 3 Primary Containment Equipment Hatch (9/9/2015)
(Japanese)
http://www.tepco.co.jp/nu/fukushima-np/handouts/2015/images/handouts_150909_12-j.pdf
(video clip)
http://www.tepco.co.jp/tepconews/library/archive-j.html?video_uuid=aatm0o3t&catid=61699
2. My recent visit to 1F (on Sept. 2) —Kenji
3. Planned DOE work scope (pending FY16 authorization)—Joy
Apologies for the short notice and inconvenient time for those especially in the East Coast.
Please let me know if you can join the call.
All the best,
Kenji

Kenji Tateiwa
Safety Engineering Group Manager
Fukushima Daiichi D&D Engineering Company
Tokyo Electric Power Company, Inc.
1-1-3 Uchisaiwai-cho, Chiyoda-ku
Tokyo, Japan
office: +81-3-6373-4751
(b)(6)
tateiwa.kenji@tepco.co.jp
From: Tateiwa, Kenji [mailto:tateiwa.kenji@tepco.co.jp]
Sent: Saturday, August 29, 2015 3:41 PM
To: 'Joy Rempe'; 'sudhamay basu'; RCBUNT@southernco.com; corradin@engr.wisc.edu; 'phillip ellison'; 'Mitchell T. Farmer'; 'Matthew W.' 'Francis'; 'Jeff R. Gabor'; 'Randall O' 'Gauntt'; 'Richard' 'Lee'; 'Linthicum, Roy R.:(GenCo-Nuc)'; btwillia@tva.gov; 'Damian' 'Peko'; 'Martin G' 'Plys'; 'Resident Researcher - Yamada, Daichi'; 'Steven' 'KRAFT'; 'cristian rabiti'; 'Bob Lutz'; 'Wison' 'Luangdilok'; Paik@fauske.com; 'Kevin R.' 'Robb'; 'Richard' 'Wachowiak'; 'Yasunori YAMANAKA'; 'Donald A' 'Kalinich'; 'Amway, Phillip M:(GenCo-Nuc)'
Subject: [1F Forensics Report] Requests Incorporated in Unit 3 D/W Inspection Plan
Joy and all,
Some items in the wish list of the Forensics Report have been incorporated in TEPCO's plan to investigate inside the Unit 3 drywell planned in October 2015.
See pages 10/30 to 20/30 of the following presentation (in Japanese.)

3-5. Preparation for Fuel Debris Removal
http://www.tepco.co.jp/nu/fukushima-np/roadmap/images/d150827_08-j.pdf
I will be covering this material during the next Fukushima Update teleconference on Mon, Aug. 31 from 9 am EDT.

call number (New York): 718-354-1184

(b)(6)

Let me know if you are interested in receiving future notices of my update call (many of you are already on my list.)
All the best,
Kenji

Outside of Scope

On 8/5/2015 7:10 PM, Tateiwa, Kenji wrote:

> Joy and all,
> I have been involved in TEPCO's internal meetings to discuss what investigation should be done when conducting various entries into the reactor buildings and primary containments of 1F.
> I provided the draft Forensics Report to my colleagues in charge of such investigations (their focus is fuel debris removal), and they are willing to take into consideration the requests included in the report (to the extent possible.)
> They may ask you for clarification on why you would like to obtain certain information.
> Although the rationale of your requests is described in the report, it may not be sufficient to justify the additional burden.
> I will let you know when my colleagues come up with specific questions.
> It may make sense to set up a teleconference between the TEPCO fuel debris removal team and your team at some point.
> All the best,
> Kenji
>
> Outside of Scope

Page 2252 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2253 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2254 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2255 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Page 2256 of 2257

Withheld pursuant to exemption

Outside of Scope

of the Freedom of Information and Privacy Act

Outside of Scope