

IPRenewal NPEmails

From: Noggle, James
Sent: Thursday, April 07, 2016 1:26 PM
To: Furia, Joseph; Lorson, Raymond; Smith, Brian; Gray, Mel
Cc: Dentel, Glenn; McNamara, Nancy; Tifft, Doug; Screnci, Diane; Sheehan, Neil
Subject: FW: Documents Being Provided to Stakeholders
Attachments: Indian Point Unit 2 Tritium Event RCE Memo.docx; FSB-PAB Slice Rendering 2016-03-11.jpg

Info being provided to IPEC stakeholders to be used during the bi-weekly stakeholder call tomorrow. Larry Coyle, SiteVP, will lead the call and discuss the baffle bolt issue as well as groundwater.

From: Donahue, Patrick J [mailto:PDonahu@entergy.com]
Sent: Thursday, April 07, 2016 1:14 PM
To: Noggle, James <James.Noggle@nrc.gov>
Subject: [External_Sender] Documents Being Provided to Stakeholders

Jim,
Attached are two documents we are providing to stakeholders in response to stakeholder feedback received during the last call.

Best,

Patrick Donahue
Fleet Environmental Protection
pdonahu@entergy.com
(914) 263-9516 (cell)
(914) 272-3470 (office)



Hearing Identifier: IndianPointUnits2and3NonPublic_EX
Email Number: 6162

Mail Envelope Properties (18bfcbaeea9347668852372305e590bb)

Subject: FW: Documents Being Provided to Stakeholders
Sent Date: 4/7/2016 1:26:23 PM
Received Date: 4/7/2016 1:26:27 PM
From: Noggle, James

Created By: James.Noggle@nrc.gov

Recipients:

"Dentel, Glenn" <Glenn.Dentel@nrc.gov>
Tracking Status: None
"McNamara, Nancy" <Nancy.McNamara@nrc.gov>
Tracking Status: None
"Tifft, Doug" <Doug.Tifft@nrc.gov>
Tracking Status: None
"Screnci, Diane" <Diane.Screnci@nrc.gov>
Tracking Status: None
"Sheehan, Neil" <Neil.Sheehan@nrc.gov>
Tracking Status: None
"Furia, Joseph" <Joseph.Furia@nrc.gov>
Tracking Status: None
"Lorson, Raymond" <Raymond.Lorson@nrc.gov>
Tracking Status: None
"Smith, Brian" <Brian.Smith@nrc.gov>
Tracking Status: None
"Gray, Mel" <Mel.Gray@nrc.gov>
Tracking Status: None

Post Office: R1PWMSMRS02.nrc.gov

Files	Size	Date & Time
MESSAGE	748	4/7/2016 1:26:27 PM
image001.png	7608	
Indian Point Unit 2 Tritium Event RCE Memo.docx		20065
FSB-PAB Slice Rendering 2016-03-11.jpg		2438413

Options

Priority: Standard
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Reply Requested: No
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Recipients Received:



Update On Groundwater Monitoring And Tritium at Indian Point

The causal analysis of the tritium event has identified that the direct cause is the operation of a temporarily installed reverse osmosis filtration unit that was in use at Unit 2 for approximately two weeks in January 2016. This finding is confirmed by several facts:

- The spectroscopy and chemical signature of groundwater samples indicates the presence of reject water from this filtration unit.
- The declining concentration of tritium in groundwater shows that the release was a onetime event and has stopped.
- The time frame for the presence of the tritium parallels the operational period of the filtration unit.
- Location of affected wells indicates the release occurred at Unit 2.
- Inspection, testing and chemical signature of other components has excluded them as credible sources.

The Root Cause Failure Modes Analysis (FMA) is nearly complete with one action remaining. This action, testing the fuel storage building truck bay floor, cannot be completed until after the refueling outage is complete.

In response to the direct and contributing causes identified in the analysis, the following actions are being taken:

- Revise the reverse-osmosis filtration unit operation to prevent interaction with any groundwater paths.
- Investigate and clean all Unit 1, 2 and 3 floor drains.
- Place the aforementioned floor drains in a preventive maintenance program.
- Perform an Extent of Condition review on systems that are comparable to the reverse-osmosis filtration unit operation to prevent a similar occurrence.
- Any additional corrective actions required as a result of the truck bay floor.
- Upgrade existing environmental awareness training to demonstrate how work practices can impact groundwater.
- Evaluate and develop design details to harden the site against leaks.
- Conduct a cross-disciplinary focused self-assessment of the site groundwater monitoring program.
- Conduct a site-wide communication to inform all employees on the event and to discuss how work practices can adversely impact groundwater.

Samples taken from groundwater monitoring wells from around the site since Entergy first detected the issue have shown generally declining levels of tritium – one of the weakest radioisotopes – in groundwater, with some expected exceptions as the material migrates underground. This event was reported voluntarily to federal and state authorities in early February.

As previously stated, drinking water and Hudson River aquatic life were not affected. Even at their highest levels tritium never exceeded one-tenth of one percent of US Nuclear Regulatory Commission limits. Measurements of groundwater and river water verified there is no threat to human health or the environment.

In addition to the event analysis and ongoing monitoring, we are acting on advice from the NRC, by extracting water at a monitoring well to lower the localized concentration of tritium, strengthening the detection capability. We are also installing a groundwater extraction system that had originally been planned for late this year.

We are keeping local governments, members of Congress, regulatory agencies and other stakeholders informed through a regular series of conference calls with technical experts.

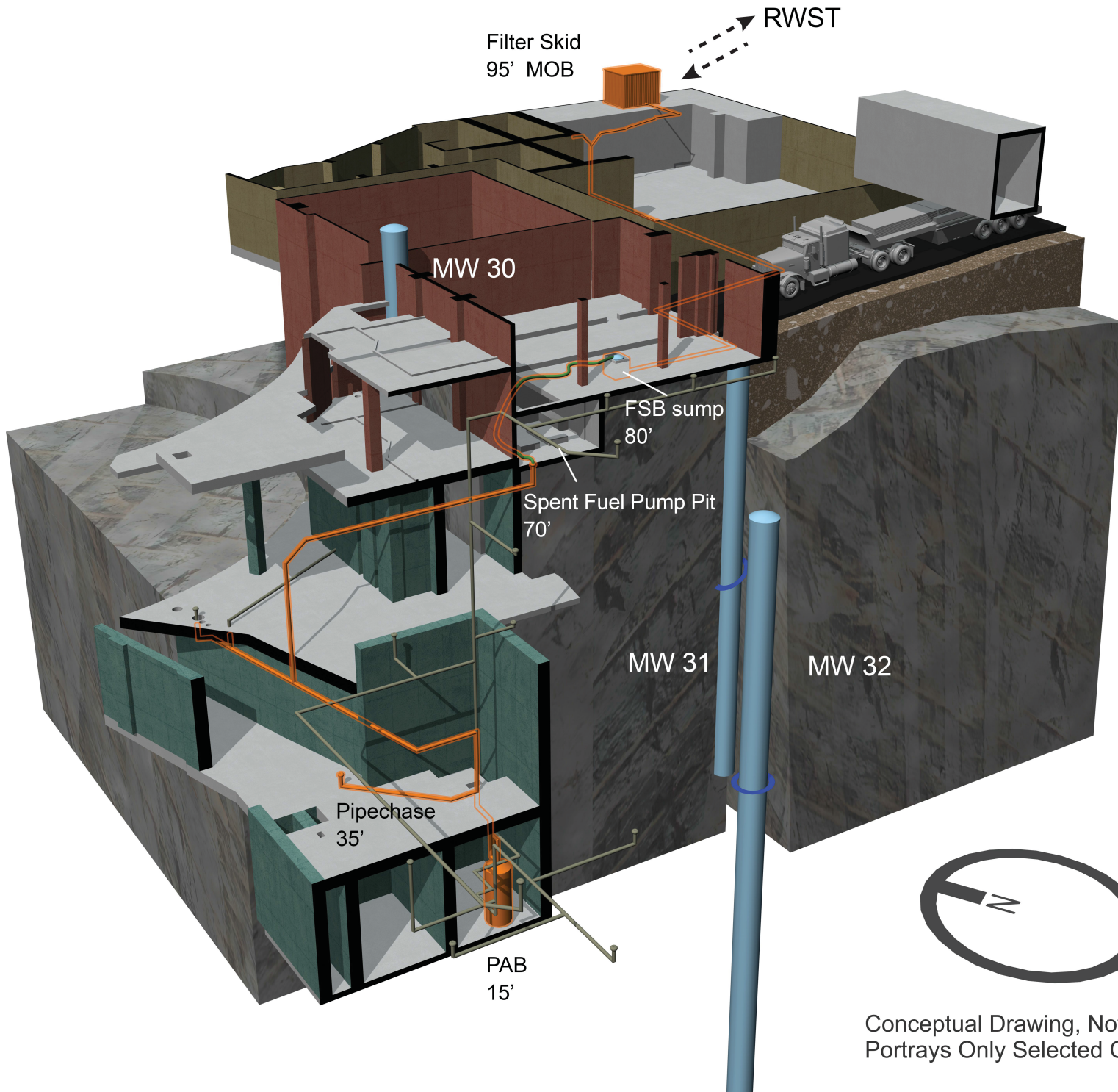
Indian Point takes accountability for running a safe and secure operation seriously and acknowledges that it fell short of the high standards the community has come to expect from it. Company leadership has assembled a dedicated team of external and internal experts to help understand what happened and prevent a recurrence.

Indian Point Energy Center's online address is www.safesecurevital.com.

Entergy's online address is www.entergy.com

Twitter: [@Indian_Point](https://twitter.com/Indian_Point)

Facebook: [Facebook.com/IndianPointEnergy](https://www.facebook.com/IndianPointEnergy)



Conceptual Drawing, Not to Scale.
Portrays Only Selected Components.