

IPRenewal NPEmails

From: Haagensen, Brian
Sent: Monday, April 04, 2016 8:28 AM
To: Paul
Cc: Dentel, Glenn
Subject: RE: Fwd: Baffle bolt fail at Indian Point

Paul,

The Indian Point 2 baffle bolt degradation issue is presently under causal assessment by Entergy and is being inspected by the NRC. It is too early in the process to provide any results from the assessment/inspection efforts.

Thank you for the suggested lines of inquiry.

Brian C. Haagensen
Senior Resident Inspector
Indian Point Energy Center
(914) 739-9360 (Office)
(860) 460-1028 (Cell)

From: Paul [mailto:pdblanch@comcast.net]
Sent: Sunday, April 03, 2016 1:50 PM
To: Haagensen, Brian
Subject: [External_Sender] Fwd: Baffle bolt fail at Indian Point

Questions for you and coworkers.

Sent from my iPhone

Begin forwarded message:

From: DR WILLIAM CORCORAN <williamcorcoran@sbcglobal.net>
Date: April 3, 2016 at 12:09:22 PM EDT
To: Paul <pdblanch@comcast.net>, "William. R. Corcoran" <William.R.Corcoran@1959.USNA.com>
Cc: "svandolsen@gmail.com" <svandolsen@gmail.com>, Paul Gallay <pgallay@riverkeeper.org>, Amy Rosmarin <amyrosmarin@aol.com>, Lampert Mary <mary.lampert@comcast.net>, Dave Lochbaum <dlochbaum@ucsusa.org>, Lawrence Criscione <lscriscione@hotmail.com>
Subject: Re: Baffle bolt fail at Indian Point
Reply-To: DR WILLIAM CORCORAN <William.R.Corcoran@1959.USNA.com>

Indian Point Core Former Bolt Failures Questions
Refinement4
April 3, 2016

How would the reactor have responded to any and all design basis events, including loss of coolant accidents (LOCAs) and Steam Line Breaks (SLBs), if one had occurred just before the plant shutdown for the core former inspection?

How will the NRC develop lines of inquiry?

How will Entergy develop lines of inquiry?

What are the failure modes? Did all of the failed bolts fail the same way?

What are the results of the metallographic examinations and tests? Were they all the same?

What is the time distribution of the failures?

What are the conditions, behaviors, actions, and inactions that resulted in the failures not being manifested before 2016?

Were there any alarms from the Metal Impact Monitoring System (MIMS)?

Were there any abnormal conditions that could be seen on any instrumentation and/or recordings?

What are the results of a careful inventory accounting of all of the bolts, bolt pieces, bolt fragments, fasteners, etc to nail down exactly what foreign material is going to be still inside the reactor coolant system?

(Even temporarily trapped material can be freed by mechanical, hydraulic, or other perturbations/shocks to the system, in which case the foreign material can damage important equipment including steam generator tubes and fuel cladding.)

Did the Metal Impact Monitoring System (MIMS) detect any of the pieces from broken bolts? If so, how did workers evaluate the quite valuable advice it provided? If not, should it have detected the impacts from the metal pieces?

What are the other U.S. reactors that have bolts and similar fasteners inside the reactor coolant pressure boundary?

What are the other questions and lines of inquiry?

Take care,

Bill Corcoran

William R. Corcoran, Ph.D., P.E.

21 Broadleaf Circle

Windsor, CT 06095-1634

860-285-8779

William.R.Corcoran@1959.USNA.com

<http://www.linkedin.com/in/williamcorcoranphdpe>

On Sunday, April 3, 2016 8:02 AM, Paul <pdblanch@comcast.net> wrote:

Bill:

There are some discussions about possible core blockage with the baffle plate dislocation and loss of cooling geometry .It may impact the LOCA analysis. This is why an 8 hour report was required under 10 CFR 50.72 "(B) The nuclear power plant being in an unanalyzed condition that significantly degrades plant safety."

On Apr 2, 2016, at 6:58 PM, DR WILLIAM CORCORAN
<williamcorcoran@sbcglobal.net> wrote:

What questions have I missed?

What are the failure modes? Did all of the failed bolts fail the same way?

What are the results of the metallographic examinations and tests? Were they all the same?

What is the time distribution of the failures?

Were there any alarms from the Metal Impact Monitoring System (MIMS)?

Were there any abnormal conditions that could be seen on any instrumentation and/or recordings?

I hope that there will be a careful inventory accounting of all of the bolts, bolt pieces, fasteners, etc to nail down exactly what foreign material is going to be still inside the reactor coolant system.

Even temporarily trapped material can be freed by mechanical, hydraulic, or other shocks to the! system, in which case the foreign material can damage important equipment including steam generator tubes and fuel cladding.

A Lee Iacocca instructed us, "Hope is not a plan."

Metal Impact Monitoring System (MIMS)

Did it detect any of the pieces from broken bolts?

If so, how did workers evaluate the quite valuable advice it provided?

If not, should it have detected the impacts from the metal pieces?

Take care,

Bill Corcoran

William R. Corcoran, Ph.D., P.E.

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<https://www.box.com/shared/kfxg1lt9dh>

On Friday, April 1, 2016 10:16 AM, Paul <pdblanch@comcast.net> wrote:

Begin forwarded message:

From: Dave Lochbaum

<DLochbaum@ucsusa.org>

Subject: RE: Baffle bolt fail at Indian Point

Date: March 29, 2016 at 6:31:59 PM EDT

To: Paul <pdblanch@comcast.net>

My backgrounder. Feel free to distribute.

From: Paul [pdblanch@comcast.net]

Sent: Tuesday, March 29, 2016 4:53 PM

To: Dave Lochbaum

Cc: Paul Blanch

Subject: Baffle bolt fail at Indian Point

I understand that hundreds of baffle bolts have failed at Indian Point 2 and it will be down for months.

Another sign of aging and too old to operate.

See drawing enclosed

Paul Blanch
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860-236-0326
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Hearing Identifier: IndianPointUnits2and3NonPublic_EX
Email Number: 5633

Mail Envelope Properties (1b329e7b6f57454a996414e29e2eb42c)

Subject: RE: Fwd: Baffle bolt fail at Indian Point
Sent Date: 4/4/2016 8:28:24 AM
Received Date: 4/4/2016 8:28:25 AM
From: Haagensen, Brian

Created By: Brian.Haagensen@nrc.gov

Recipients:
"Dentel, Glenn" <Glenn.Dentel@nrc.gov>
Tracking Status: None
"Paul" <pdblanch@comcast.net>
Tracking Status: None

Post Office: R1PWMSMRS02.nrc.gov

Files	Size	Date & Time
MESSAGE	7435	4/4/2016 8:28:25 AM

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received: