

CASE NO: 2017-0365
DATE REC'D: 02/27/2017
SPECIALIST:
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From: [DeSalvo, Andrew](#)
To: [FOIA Resource](#)
Subject: [External_Sender] FOIA; records responsive to the Turkey Point Nuclear Plant HEAT SINK PERFORMANCE DOCUMENT REQUEST October 28, 2016
Date: Friday, February 24, 2017 3:51:56 PM
Attachments: [ML16187A399.pdf](#)

Andrew DeSalvo
(b) (6)

February 24, 2017

U.S. Nuclear Regulatory Commission
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SUBJECT: FOIA; records responsive to the Turkey Point Nuclear Plant HEAT SINK PERFORMANCE DOCUMENT REQUEST October 28, 2016

To whom it may concern;

I am seeking access to records under the Freedom of Information Act; and,

DESCRIPTION OF THE RECORDS:

records responsive to the

HEAT SINK PERFORMANCE DOCUMENT REQUEST
Site: Turkey Point Nuclear Plant
Docket Nos.: 50-250, 50-251

Information Requested for the In-Office Preparation Week, and
Information to be provided on-site to the inspector at the entrance meeting (November 28, 2016)
Enclosure: Heat Sink Performance Document Request

If you have any questions regarding this information request, please call the lead inspector as soon as possible.

Please deliver the requested records in ELECTRONIC FORM, via ELECTRONIC MAIL

Yours sincerely,

ANDREW DeSALVO
(b) (6)

1 Attachments
105KB

PDF
[ML16187A399.pdf](#)
105KB

enclosure

HEAT SINK PERFORMANCE DOCUMENT REQUEST

Site: Turkey Point Nuclear Plant

Docket Nos.: 50-250, 50-251

Inspection Dates: November 28 – December 2, 2016

Entrance Meeting: November 28, 2016

Inspection Procedures: IP 71111.07, "Heat Sink Performance," dated 07/06/2010

Inspectors: Abhijit Sengupta, Reactor Inspector (Lead Inspector)

A. Information Requested for the In-Office Preparation Week

Please provide the information requested in this section to the NRC Region II Office in care of the lead inspector by October 28, 2016, in order to facilitate the selection of specific items that will be reviewed during the onsite inspection week. The information can be provided in hard copy or electronic format; however, electronic format is preferred, either by digital data storage device (e.g. compact disk), or web-based document management system. If you have any questions regarding this information request, please call the lead inspector as soon as possible.

A.1 Heat Exchangers and Service Water Equipment

a) List of heat exchangers (HXs) or equipment cooled by service water (SW) directly or indirectly

- Include the risk ranking from the site specific risk assessment for each listed HX
- Detail whether any cleaning or inspection activities are planned during the proposed onsite inspection period for any of the listed HXs
- For HXs directly cooled by SW, provide the testing, inspection, maintenance, and monitoring of biotic fouling and macrofouling program documents

b) Detail the HX performance inspection methods for HXs that are inspected/cleaned

c) Response to Generic Letter 89-13 including any regulatory commitments made

d) Design Basis documents associated with the SW system

e) Design Basis documents associated with the Ultimate Heat Sink (UHS)

f) SW system flow diagrams

g) Recent Health Reports associated with the SW System and systems that are cooled by SW

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h) List of SW system related corrective action documents (with a brief description) which have received a Root Cause Analysis or an elevated severity level in the last three years

i) Recent Operating Experience Events (2013-2016)

j) List of applicable Codes and Industry Guidelines

k) List of findings in the heat sink/heat exchanger performance area for the last 3 years

l) List of redundant or infrequently used HXs

m) Chemistry Program for safety-related HXs.

n) Detail whether the UHS is above ground encapsulated by embankments, weirs or excavated side slopes; underwater weir or excavation; or forced draft cooling tower or spray pond

o) Provide a list of buried or inaccessible piping and the piping test program, inspection or monitoring program

p) List of safety-related and non-safety related valve interfaces

B. Information to be provided on-site to the inspector at the entrance meeting

(November 28, 2016):

B.1 Heat Exchangers and Service Water Equipment

The inspector will select two to four heat exchangers and/or heat sink samples as required by the inspection procedure during the in-office preparation. The following items will be requested when the selections are made:

a) Updated list of System Engineers

b) List of any thru-wall leaks including completed or planned corrective actions and structural evaluations

c) Provide a copy of the corrective actions and supporting documentation

d) For the HXs that have Visual and/or Eddy Current Testing performed, provide a copy

of the examination records, examiner qualification records, and associated corrective action documents

e) Heat transfer calculations

f) Evaluations for the potential of water hammer

g) Documentation for controls and operational limits for excessive flow induced vibrations

h) Periodic flow test results at/or near maximum design flow

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i) For an UHS that is encapsulated by embankments, weirs of excavated side slopes provide: (1) third party dam inspection results, and (2) documentation showing that there is sufficient reservoir capacity

j) For an UHS that is an underwater weir or excavation provide documentation showing:

- Periodic monitoring and trending of sediment build-up
- Sufficient reservoir capacity
- Considerations for adjacent non-seismic and/or non-safety related structures of possible degradation or blocking of safety-related flow paths due to severe weather or seismic events
- Performance monitoring of heat transfer capabilities
- Performance monitoring of UHS structural integrity
- SW flow balance test results

Inspector Contact Information:

Abhijit Sengupta

Reactor Inspector

Engineering Branch 3

Division of Reactor Safety

404-997-44304

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