From:

Mel Gray ; LT Daniel Holody 5/3/04 2:14PM

To: Date:

Subject:

questions on HC EDG

Per our discussion.

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 57.70 FOIA- 2004-314

Mail Envelope Properties (40968BEC.FDE: 4:9948)

Subject:

questions on HC EDG

Creation Date:

573/04 2:14PM

From:

Mel Gray

Created By:

MXG3@nrc.gov

Recipients

kp1_po.KP_DO

DJH (Daniel Holody)

Action Delivered Date & Time

Opened

05/03/04 02:14PM 05/03/04 02:15PM

Deleted

07/30/04 03:02PM

Post Office

kp1_po.KP_DO

Delivered

05/03/04 02:14PM

Route

Files

Size

Date & Time

Hope Creek EDG.wpd

19948

05/03/04 02:12PM

MESSAGE

464

No

None

Yes Standard 05/03/04 02:14PM

Options

Auto Delete:

Expiration Date:

Notify Recipients:

Priority:

Reply Requested:

Return Notification:

No None

Concealed Subject:

No

Standard Security:

To Be Delivered:

Immediate

Status Tracking:

All Information

Allegation Receipt Report (Use also for Staff Suspected Wrongdoing)

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Date Received: Monday, May 3, 2004 Allegation No. RI-Received via: [X] Telephone [X] In-person [] Letter [] Facsimile (leave blank) Site visit on Wednesday 4/28/2003 with request for inspection. Initial fact finding on 4/29-30/2004. Follow-up phone call on Monday, 5/3/2004. Employee Receiving Allegation or suspecting wrongdoing (first two initials and last name): Mel Gray Source of information (please check one bext ريود ورويونان ولالقيمة والخاصة ماييه Carlo Maria Carlo Carlo Alleger Name: *unknown (See Note) Home Address: * unknown Home Phone: * unknown City/State/Zip: * unknown Alleger's Employer: * unknown Alleger's Position/Title:* unknown * Do not complete these sections for issues of staff suspected wrongdoing. Note: At the indicated that a concerned Note: At individual made the following assertions to a during a meeting. The assertions were made through the concerned individual by a second concerned individual whose identify was not identified to the Facility: Hope Creek Docket No. or License No.: 50-354 Was alleger informed of NRC identity protection policy? Yes No.X Yes No N/A X If H&I was alleged, was alleger informed of DOL rights? If a licensee employee or contractor, Yes _ No _ N/A X did they raise the issue to their management and/or ECP? Does the alleger object to referral of issues to the licensee? Yes No __ Provide alleger's direct response to this question verbatim on the line below: Unknown Was confidentiality requested? Yes No X Was confidentiality initially granted? Yes No N/AX Individual Granting Confidentiality: ___N/A___ Criteria for determining whether the issue is an allegation: Is it a declaration, statement, or assertion of impropriety or inadequacy? Yes / No Is the impropriety or inadequacy associated with NRC regulated activities? Yes / No Is the validity of the issue unknown? Yes / No If No to any of the above questions, the issue is not an allegation and should be handled by other appropriate methods (e.g. as a request for information, public responsiveness matter, or an OSHA referral). Allegation Summary or staff suspected wrongdoing: (Recipient of the allegation shall summarize each concern here - provide additional detail on reverse side of form, if necessary. If entering allegation electronically, highlight Allegation Summary in bold and use larger font size) met with a concerned individual. The concerned individual described issues with Hope Creek emergency

met with a concerned individual. The concerned individual described issued from the concerned individual (previously employed at PSEG), had provided. diesel generators (EDGs) that a second concerned individual was not provided to the concerned in

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2004, the Gray to describe the statements of concern. He had hand written notes which he verbally stated made the following assertions:

1. A Hope Creek EDG had problem a with metal filings or grit in its lube oil or jacket water system. This was causing lube oil or jacket water leaks. PSEG did a fix that was not the best.

2. Also, a shaft needed replacement, but was not because of cost.

The SRI searched the notifications for something along these lines and identified notification was a possible candidate. This notification was written on 4/26/03 by a maintenance individual. The problem described was that, because Engineering did not listen to the individual and flush the jacket water system, additional jacket water seal leaks developed. The inspector reviewed with the initial response to the notification and both agreed it sounded similar to the statements of concern being made. The inspector toured all four EDGs with the shown him the jacket water and intercooler pumps and common shaft that was described in the notification. The inspector also discussed with the system engineer (with observing) any plans for jacket water flushing. The inspector determined that, based on periodic jacket water sampling, PSEG plans to flush B EDG jacket water system in April 2006. This is tracked under notification. No other EDG engine flushes are planned. B EDG pump seals do not currently leak.

The SRI communicated to that that he had talked to an individual in June 2003 who believed that grit was the cause of chronic EDG pump seal failures. He talked with the individual in June 2003 when the A EDG intercooler seal leaked and HC began to shutdown per TS because of the problem. The individual believed that jacket water system had grit from sand castings during initial fabrication, and grit embedded in seals and caused chronic leaks.

PSEG subsequently disassembled the A EDG jacket water and intercooler pumps and shaft in July 2003 and found a seized thrust bearing. One result of the root cause evaluation done on this was that chronic seal leaks on EDGs may have been due to lack of design spec numbers in the PSEG seal replacement procedure to check shaft thrust and bearing clearance. PSEG could not ensure jacket water and intercooler pump seals were consistently being shimmed correctly w/o checking these parameters. This would look like wear out of seals prematurely. The inspector referenced IR 354/2003-004. It documents an NCV finding for PSEG not having design specifications in pump seal replacement procedure when it was available in a vendor document previously used in a B EDG work order.

left the resident office thereafter (to support an unrelated public meeting that evening).

The inspector performed follow-up inspection on Thursday and Friday, April 29-30, 2004, and determined the following details regarding notification.

- 1. An individual stated that the jacket water pump seal on the C EDG leaked in 9/02. The individual initiated a level 2 notification at that time. The individual asserted in 9/02 the seals were likely failing due to corrosion products in the jacket water system.
- 2. The individual's notification was closed to order 70026906, then to 70026865 for PSEG engineering personnel to evaluate. PSEG engineering did not agree with the individual that the C EDG jacket water pump seal failed due to corrosion products. Engineering asserted that the jacket water seal faces were heavily worn. There was some debris in the soft side seal face, but this did not cause the seal failure. Engineering concluded the seal wore due to being inservice for 6 years. Therefore Engineering did not identify a jacket water system flush as a corrective action.
- 3. The Individual asserted in notification what that, because engineering did not ensure the jacket water system was flushed, there were additional jacket water or intercooler pump seal failures. He cited notification where the B EDG developed a jacket water leak. He further cited notification where the B EDG common pump shaft for jacket water and intercooler pumps had grooves and required replacement.
- 4. Notification was closed based on engineering response that debris was not cause of seal leaks.

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WHAT IS THE ALLEGATION?
WHAT IS THE REQUIREMENT/VIOLATION?
WHERE IS IT LOCATED?
WHEN DID IT OCCUR?
WHO IS INVOLVED/WITNESSED?
HOWMHY DID IT OCCUR?
WHAT EVIDENCE CAN BE EXAMINED?
WHAT IS THE STATUS OF THE LICENSEE'S ACTIONS?

How did the alleger find out about the concern(s); other individuals NRC should contact for additional information; records NRC should review; whether the alleger raised the concerns with his or her management; alleger's preference for method and time of contact.