



Commonwealth Edison
Quad-Cities Generating Station
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NJK-74-87



May 30, 1974

Mr. John F. O'Leary, Director
Directorate of Licensing
Regulation
U. S. Atomic Energy Commission
Washington, D.C. 20545

Reference: Quad-Cities Nuclear Power Station Unit 1, Docket No. 50-254,
DPR-29, Abnormal Occurrence Report Letter of April 25, 1974

Dear Mr. O'Leary:

The purpose of this letter is to provide you with further information regarding the above referenced abnormal occurrence report. The original report described the initial findings and plans related to failures of several jet pump components of the Unit 1 reactor. The new information provided in this letter has been discussed with Regulatory Operation's personnel as it became known.

1. Previous Reporting Error - There was an error in reporting in the April 25, 1974, report. Item 4 on page 2 under "discrepancies noted", reported that the restrainer gate wedge on jet pump 5 was missing. This should have read, the restrainer gate wedge on jet pump 6 was missing. The error occurred while transposing the data from the field check sheet to the draft for the report.
2. Restrainer Gates - All restrainer gate assemblies have been removed. New assemblies are being processed by General Electric Company. These new gate assemblies are due to arrive at the Station by May 25, 1974.
3. Restrainer Gate Wedges - Several of the original restrainer gate wedges fit in place too deeply and did not meet the installation tolerance specified. The wedges for the new gate assemblies have been redesigned to be slightly larger in size. The larger wedges should provide assurance that the required tolerance will be met.
4. Restrainer Gate Bolt Keepers - The restrainer gate bolt keepers have also been slightly redesigned. The new design eliminates a shoulder and lip on the edges of the keeper. These edges have caused interference and damage to the tip of the welding electrodes used to tack the keeper in place. The lip served no useful purpose and thus has been eliminated in order to aid in the welding operation.

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5. Riser Braces - The riser braces on all ten jet pump inlet risers have been inspected with the underwater television camera. All brace to vessel wall welds were found to be intact.
6. Jet Pump 5 & 6 Inspection - Jet pump 5 was lifted approximately 2" from its normal position. The seating surfaces at both the inlet and outlet were inspected with the underwater television camera and found to be in normal condition. Jet pump 6 was lifted from its normal position and raised completely out of the water for inspection. Both the inlet and outlet seating surfaces were found to be in normal condition. Slight wear on the order of a few thousandths of an inch was observed on the belly band in the vicinity of the contact area with the wedge.
7. Missing and Loose Parts - Since the initial report, some of the reported missing parts have been retrieved from the vessel. Also, additional parts have been found to be missing, and some parts have been retrieved. Table 1 is a complete index of all parts known to be either missing or loose in the vessel along with their disposition to date. Attempts will be made to locate and retrieve the parts that are still missing. These parts will be sent to the General Electric Company at their Vallecitos Nuclear Center, as required, to help determine the possible causes or reasons for the failures.
8. Jet Pump 7 Instrument Line - Several preliminary repair plans to fix the severed instrument line of Jet Pump 7 are being pursued by the General Electric Company. Because of the time required to develop the tooling necessary to implement the repairs, the fix will not be available for the current outage. It is planned to operate during this next cycle with the instrument line as it now is, and to try to repair it during the next refueling outage. A safety evaluation regarding continued operation in this manner will be submitted prior to startup of the unit.

Plans related to these problems are discussed at least daily between Edison and General Electric. Final resolution of all the problems is still pending as of this date. AEC Regulatory Operations personnel have been, and will continue to be updated frequently on the status of the repairs to the jet pumps. Further information will be reported to you on a timely basis as further developments occur or until the necessary repairs are finalized and this report is closed out.

Very truly yours,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION



N. J. Kalivianakis
Station Superintendent

NJK:REQ/jeh

cc: Region III, Directorate of Regulatory Operations
J. S. Abel

TABLE 1

QUAD CITIES NUCLEAR POWER STATION

UNIT 1

SPRING 1974 REFUELING OUTAGE

INDEX OF MISSING AND LOOSE PARTS

PART	ORIGINAL STATUS*	DATE OF DISCOVERY	DATE OF RETRIEVAL	DISPOSITION
JP 5 Restrainer gate bolt head	Missing	4/16/74	By 4/23/74	To GE - VNC
JP 5 Restrainer gate bolt head	Missing	4/16/74	5/25/74	To GE - VNC
JP 6 Restrainer gate bolt head	Missing	4/16/74	5/25/74	To GE - VNC
JP 5 Restrainer bolt keeper	Missing	4/16/74	By 4/23/74	To GE - VNC
JP 5 Restrainer bolt keeper	Missing	4/16/74	By 4/23/74	To GE - VNC
JP 6 Restrainer bolt keeper	Missing	4/16/74	5/25/74	To GE - VNC
JP 6 Wedge	Missing	4/16/74	By 4/23/74	To GE - VNC
JP 6 Wedge bale	Missing	4/16/74	By 4/23/74	To GE - VNC
JP 6 Wedge spring	Missing	4/16/74	By 4/23/74	To GE - VNC
Extra wedge bale (later verified from JP 5)	Loose	4/16/74	By 4/23/74	To GE - VNC
LPM end connector	Fell Off	4/28/74	5/20/74	Fuel Pool
JP 6 Locator block	Missing	5/22/74	5/25/74	To GE - VNC
JP 6 Locator block adjusting screw	Missing	5/22/74	5/25/74	To GE - VNC
JP 7 Locator block adjusting screw	Missing	5/22/74	5/23/74	To GE - VNC
JP 10 Retainer for beam bolt	Missing	5/23/74	5/23/74	To GE - VNC
Retainer for beam bolt (later verified from JP 15)	Loose	5/23/74	5/23/74	To GE - VNC
Retainer for beam bolt (later verified from JP 16)	Loose	5/23/74		
JP 10 Bolt for above retainer	Missing	5/23/74	5/23/74	To GE - VNC
JP 15 Bolt for above retainer	Missing	5/23/74		
JP 16 Bolt for above retainer	Missing	5/23/74		
Welding Rod	Loose	5/23/74		
File	Loose	5/23/74	5/23/74	Fuel Pool
Cylinder (later verified as part of vib. inst.)	Loose	5/23/74	5/23/74	To GE - VNC

* Missing means not in normal location and unaccounted for.

Loose means observed by TV to be at bottom of annulus, but source unknown.