

REPORT NUMBER: AO-50-265/75-28

REPORT DATE: August 8, 1975

OCCURRENCE DATE: July 29, 1975

FACILITY: Quad-Cities Nuclear Power Station  
Cordova, IL 61242

IDENTIFICATION OF OCCURRENCE:

2A Residual Heat Removal (RHR) System Service Water Pump inoperable.

CONDITIONS PRIOR TO OCCURRENCE:

Unit two was in the RUN mode with 1949 MWt and 605 MWe.

DESCRIPTION OF OCCURRENCE:

On July 29, 1975, at 9:00pm, while performing surveillance on 2A RHR Service Water Pump, the pump pressure was 198 psia and the flow was 2850 GPM. Technical Specification 4.5.B.1.b requires the pump to deliver at least 3500 GPM against a pressure of 198 psia. Because 2A RHR Service Water Pump did not comply to Technical Specification requirements the pump was removed from service and surveillance testing required for an inoperable RHR Service Water Pump was commenced.

DESIGNATION OF APPARENT CAUSE OF OCCURRENCE:

Equipment Failure -

2A RHR Service Water Pump's flow was reduced by an accumulation of debris consisting of pieces of wood lodged in the pump suction and impeller.

ANALYSIS OF OCCURRENCE:

As stated in the basis for the limiting condition for operation of the RHR service water pumps, the loss of one pump does not "seriously jeopardize the containment cooling capability". Since all three of the other RHR service water pumps were operable, system redundancy was still maintained.

The safety implications were also minimized by the fact that the pump was only inoperable for seven days and thirty days are allowed for repair by Technical Specifications. There were no abnormal radiation exposures to plant personnel, and there was no effect on the health and safety of the public as a result of this occurrence.

CORRECTIVE ACTION:

2A RHR Service Water Pump was removed from service, disassembled and inspected. The debris found in the pump suction and impeller was removed. The pump was reassembled and returned to service on August 5, 1975, at 3:57 pm. It was then tested at a flow of 3600 GPM and a pressure of 200 psia, both of which exceed the Technical Specification requirements.

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FAILURE DATA:

There have been 2 previous cases of inoperable RHR Service Water Pumps. In both cases the pumps would not start due to electrical problems. There has been no previous case of an RHR Service Water Pump failing to meet flow requirements; therefore, there are no safety implications resulting from cumulative experience.