

JUN 09 1987

MEMORANDUM FOR: William T. Russell, Regional Administrator
FROM: William V. Johnston, Acting Director, DRS
SUBJECT: OBSERVED CRACKS IN NINE MILE POINT, UNIT NO. 2,
SERVICE WATER PUMP BUILDING WALLS

We received the results of Niagara Mohawk's survey and evaluation of observed cracks in the Service Water Pump Pits in the Screenwell building. A total of thirteen (13) cracks varying in length between 1'-0" and 10'-10" were identified on the west wall of the north pit and the west and south walls of the south pit. The licensee characterized the cracks as fine shrinkage cracks based on their width, orientation and pattern. The report confirmed the existence of Calcium leachate on some cracks due to possible seepage of ground water through the walls sometime in the past. However, this was described as normal occurrence for this type of dense concrete mix with high cement ratio. Cracks induced as the result of concrete hydration would tend to seal themselves and create a watertight barrier during the course of concrete curing.

The report noted that all identified cracks were examined and found to be dry except for one short crack near the 224'-0" elevation floor of the south pit on the west wall. The crack was damp, however, no water flow was observed through the wall at that location. The source of dampness could have been the result of the high humidity in the area.

The licensee indicated that, Stone and Webster evaluated the observed cracks and concluded that the walls of the Service Water Pits are sound and that the observed cracks are typical shrinkage cracks of no safety significance. The nature and pattern of the cracks do not indicate the existence of excessive loads.

If you have any further questions or require any more information on this subject please contact Mr. K. Manoly of my staff.

Original Signed By:

William V. Johnston, Acting Director
Division of Reactor Safety

cc:
L. Bettenhausen
J. Durr
J. Strosnider
J. Johnson

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* note: J. Durr reviewed and
commented on 6/9

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Licensee/Facility:

Niagara Mohawk Power Corp.
Nine Mile Point 2
Docket No. 50-410
BWR/GE-5/Mark II Containment

Notification:

12/08 ENS

Subject:

Division I ADS Found Inoperable

REPORTABLE EVENT NUMBER: 14173DISCUSSION:

On 12/8 the licensee notified the NRC Headquarters Duty Officer that they determined that the Division I Automatic Depressurization System (ADS) has been inoperable since initial licensing. During the performance of logic testing on 12/3, the Instrumentation and Controls (I&C) technicians identified that the ADS pump permissive relay failed to energize, even though the A residual heat removal (RHR) pump was running. Further investigation this week identified that a wiring error in the logic relay circuit effectively made the Division I logic functionally inoperable.

The surveillance test being performed (N2-ISP-ISC-M004) apparently had not been conducted under these specific plant conditions and because of the nature of the wiring error and the method used to test the logic scheme, this problem remained disguised until now. The licensee is investigating other potential wiring deficiencies and is also reviewing their logic testing methodology.

REGIONAL ACTION: Resident inspectors are on site reviewing licensee actions.

Contact: Jon Johnson

FTS: 346-5234

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