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G. W. Reinseth, Chief, Technical Assistance Branch, RO

SPECIAL INSPECTION - FLORIDA POWER COMPORATION - CRYSTAL RIVER IN DOCUMEN NO. 30-992

On October 26.22. 2073 I accommanded M. A. Evan on an imprecation to the Crystal Piver Crit To. 3 facility. Accommand it to studiarity in design of the constituent car Crystal Niver and Pires Mile Island, I was requested to review the construction proceeders and the GA program for the construction of the ring girler. The objective of the inspection was to confirm that appropriate construction practices were used to prevent the formation of value in the construction practices were used to prevent the formation of value in the construction of the ring girder, i.e., behind the bearing plates and in other arcse congested by a large number of reinforcing bars.

The ring girder is 17'-6" hish and is being poured in six lifts and in sixty decree segments. At the time of the impection, the three bottom lifts had been poured (the bottom ten feat). Preparation for the fourth lift was underway during the inspection. To facilitate the placing of concrete in the constricted spaces of the ring girder, a special concrete mix was being used. The maximum aggregate size was lighted to 1/2 inch and the concrete slump to four inches. Planiglass windows were incerted in the steel forms at the location of the bearing plates to allow the Quality Control (CC) people to observe the placement of the concrete in critical areas.

The Quality Assurance (QA) records for the first three lifts were audited and the following items were noted as being outstanding:

of the older concrete before a lift of fresh concrete is placed upon it. The required 23 day strength of the concrete is placed upon it. The required 23 day strength of the concrete is placed and the cube strength of the epoxy is required to be 8000psi. The QA records reveal that it was difficult to obtain the 8000psi specified in the specifications. Nost of the test results were in the range of 7500psi. A resolution of this problem was delaying the pouring of additional concrete.

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We were informed that an engineering disposition of this problem had been made by Gilbert Associates. The disposition was removed to say that the epoxy was not required to be any stronger than the concrete. Supporting documentation will be available for the inspector to review at the next regular inspection of this facility.

2. It was found that NCR 511 dated September 13, 1973 has not been closed out. It was claimed by the QA personnel at the site that an engineering disposition had been which bethe as the documentation had not yet been received. This item will be reviewed at the next regular inspection of this facility.

If the care and control exercised by the licensee in the pouring of the first taree lifts of the ring girder continues no construction anomalies should be experienced.

L. L. Beratan

Senior Structural Engineer Technical Assistance Branch, RO

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