

March 22, 1991

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U. S. Nuclear Regulatory Commission Document Control Desk Mail Station P1-137 Washington, DC 20555

SUBJECT:

Arkansas Nuclear One - Unit 1

Docket No. 50-313 License No. DPR-51

Information Concerning the Special Mid-Cycle Outage

Gentlemen:

Entergy Operations provided the NRC with information concerning modifications that were scheduled to be completed in the ninth refueling outage (1R9) for Arkansas Naciear One, Unit 1 (ANO-1) but were deferred. This information was provided in letter 1CAN119016, dated November 30, 1990, and supplemented by letter 1CAN129004, dated December 17, 1990. A special mid-cycle outage (1M91) was scheduled as stated in letter 1CAN119016.

The objective and scope of 1M91 was discussed with Region IV personnel, the NRR Project Managers and NRR Staff on February 27, 1991. The purpose of this letter is to provide information concerning the scope of 1M91.

Attachment 1 provides a listing of those Design Change Packages (DCPs) or Limited Change Packages (LCPs) scheduled for completion during 1M91. Information concerning two maintenance activities scheduled to be completed in 1M91 is provided in Attachment 2. These two activities are VSF-9 noise reduction and installation of heavier PORV block valve springs.

Should you have any questions regarding this issue, please contact me.

Very truly yours,

James V Fisicaro Manager, Licensing

JJF: RWC: sgw

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ATTACHMENT 1

1M91 DESIGN OR LIMITED CHANGE PACKAGES

85-1050 87-1022 89-1023/1023A 89-1039 89-1040 89-1045 90-1006 90-1020 90-1025 90-1032 90-1035 90-1043 90-5015	Remote Operation of MU-13 Containment Isolation Valve for Air Particulate Monitor Hydrogen Sampler System Modifications ICW Piping Penetration Chilled Water Piping Penetration Service Water Return Line Code Compliance Isolation Valve on Reactor Building Drain LP Turbine Seal Regulators MFW Pump Recirculation Evaluate AOV CV-3814 and 3815 E2A and 2B Startup Boiler Controls LPI/Reactor Building Spray Indication Flush Connection Lube Oil Coolers
90-5015 90-5019 90-5021 90-5027	

ATTACHMENT 2

VSF-9 NOISE REDUCTION AND INSTALLATION OF HEAVIER PORV BLOCK VALVE SPRINGS

VSF-9 NOISE REDUCTION

In letter 1CAN@885@4 (August 14, 1985), Entergy Operations submitted the Control Room Design Review (CRDR) Final Summary Report to the NRC. Several human engineering discrepancies (HEDs) were identified in that report. HED QS:A5.2-1.065 identified the concern that the emergency interferes with speech and hearing audible alarms associated with the annunciators. This HED was classified as a Category I HED. (Category I affected a safety system or operator response during an emergency informed the NRC that this HED would be resolved during or before the seventh refueling outage for Arkansas Nuclear One, Unit 1 (ANO-1) (187).

In letter 1CAN#688#5 (June 30, 1988), Entergy Operations stated that modifications to address this HED (sealing the fir., register) were further modifications will reduce the noise level. Entergy Operations end of the 1R9 refueling outage. However, due to resource constraints not accomplished and was deferred until 1M91. Work on this system has work location in the control room ceiling.

INSTALLATION OF HEAVIER PORV BLOCK VALVE SP' .NGS

The NRC requested additional information concerning NUREG-U737, Item II.D.1, "Performance Testing of Relief and Safety Valves" in letter 1CNAØ187Ø2 (January 8, 1987). In this letter the NRC asked that Entergy consistent with the vendor's recommendations.

Entergy Operations responded to this request for additional information in letter 1CANØ678Ø2 (June 12, 1987). In reference to the subject of the heavier springs for the PORV, Entergy Operations stated that efforts were underway to procure the new springs for both the pilot and main disks. These springs were scheduled for installation during the next refueling outage.

The heavier springs were received in January 1990. During a Quality Control inspection in March 1990, the pilot valve disk and bushing were rejected due to improper tolerances. These components were returned to the vendor. In discussions with the vendor, Entergy Operations was causing this activity to be deferred until 1M91.

ATTACHMENT 2

ADDITIONAL INFORMATION CONCERNING VSF-9 NOISE REDUCTION AND INSTALLATION OF HEAVIER PORV BLOCK VALVE SPRINGS

VSF-9 NOISE REDUCTION

1 1 4

In letter ICANØ885Ø4 (August 14, 1985), Entergy Operations submitted the Control Room Design Roview (CRDR) Final Summary Report to the NRC. Several human engineering discrepancies (HEDs) were identified in that report. HED QS:A5.2-1.065 identified the concern that the emergency ventilation air handling unit (VSF-S) in the control room was noisy and interferes with speech and hearing audible alarms associated with the annunciators. This HED was classified as a Category I HED. (Category I HEDs good unified as those HEDs that could affect or has substantially affected a safety system or operator response during an emergency situation.) In letter ICANØ486Ø7 (April 29, 1986), Entergy Operations informed the NRC that this HED would be resolved during or before the seventh refueling outage for Arkansas Nuclear One, Unit 1 (ANO-1) (1R7).

In letter 1CAN068805 (June 30, 1988), Entergy Operations stated that modifications to address this HED (sealing the first register) were unsuccessful. Additional actions were being evaluated to determine if further modifications will reduce the noise level. Entergy Operations also stated that final resolution of this HED would be completed by the end of the 1R9 refueling outage. However due to resource constraints leading up to and during the course of 1R9, the resolution of this HED was not accomplished and was deferred until 1M91. Work on this system has shown to be very difficult due to the constraints associated with its duct work location in the control room ceiling.

INSTALLATION OF HEAVIER PORV BLOCK VALVE SPRINGS

The NRC requested additional information concerning NUREG-0737, Item II.D.1, "Performance Testing of Relief and Safety Valves" in letter 1CNA018702 (January 8, 1987). In this letter the NRC asked that Entergy Operations verify that the heavier springs are installed in the PORV, consistent with the vendor's recommendations.

Entergy Operations responded to this request for additional information in letter 1CAN067802 (June 12, 1987). In reference to the subject of the heavier springs for the PORV, Entergy Operations stated that efforts were underway to procure the new springs for both the pilot and main disks. These springs were scheduled for installation during the next refueling outage.

The heavier springs were received in January 1990. During a Quality Control inspection in March 1990, the pilot valve disk and bushing were rejected due to improper tolerances. These components were returned to the vendor. In discussions with the vendor, Entergy Operations was informed that the components would not be available for 1R9; thereby, causing this activity to be deferred until 1M91.