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Docket Nos. 50-373
50-374

MEMORANDUM FOR: Thomas M. Novak, Assistant Director for Licensing
Division of Licensing

FROM: William V. Johnston, Assistant Director for Materials
and Qualifications Engineering
Division of Engineering

SUBJECT: FINAL SAFETY EVALUATION REPORT INPUT FOR LASALLE
COUNTY STATION REGARDING HVAC

Reference: C. F. Braun final report for the independent HVAC
review, October 27, 1982

Attached is the final SER input by the Quality Assurance Branch regarding
the Independent HVAC Review conducted by C. F. Braun & Co. for the LaSalle
County Station.

Please contact W. Haass (X27741) should you have any questions on the attach-
ment.

/s/

William V. Johnston, Assistant Director
for Materials & Qualifications Engineering
Division of Engineering

Attachment:
As Stated

cc: A. Schwencer
A. Bournia

XA Copy Has Been Sent to PDR

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OFFICE	DE/QAB	DE/QAB	AD/MDI			
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DATE	11/1/82	11/2/82	11/2/82			

SAFETY EVALUATION REPORT

LaSalle County Station

Quality Assurance of Independent HVAC Review

A. Background

C. F. Braun & Co (Braun) has completed its contracted program for the independent review of the safety-related heating, ventilating and air conditioning (HVAC) systems of the LaSalle County Station to provide increased assurance that these systems were properly constructed. The review did not include the design of these system.

B. Program

The program for independent HVAC review was conducted by Braun by reviewing:

1. Material installed
2. Field and shop welding on supports and ductwork
3. Operability of associated mechanical equipment
4. Design changes as a result of site nonconformances
5. Field testing by Zack Co. including construction testing performed by Zack Co. and its subcontractors.

Observations made during the review were documented and reviewed by two teams of Braun personnel, one onsite and one offsite. The review teams verified the accuracy of each observation and determined its potential for a safety concern.

The Braun work was conducted by qualified personnel in accordance with documented procedures and instructions.

C. Quality Assurance

The Braun review and followup work was performed in accordance with its topical report on quality assurance, "Nuclear Quality Assurance Manual Volume I" (Braun Topical Report 21A). This report was originally found acceptable by the NRC in July 1975 with Amendment 5a (Braun's latest submittal) found acceptable by the NRC in July 1980. The QA controls established for this verification activity included those for records, qualification and training, audits, inspection procedures and reporting.

Braun had a project quality assurance engineer at the site while its review was being performed, responsible for implementation of all quality assurance procedures on the program. In addition, a qualified auditor from the Braun home office in California, who had no direct responsibility for implementing the program, audited the program while it was being implemented onsite. The audit resulted in several recommendations, principally in the area of documentation. All recommendations were accomplished prior to program completion.

D. Conclusion

Braun's independent review of HVAC systems for LaSalle County Station was performed by qualified personnel in accordance with quality assurance controls adequate to provide credence to the results of the review. Braun reports that it has found (1) the installation of the safety-related HVAC systems to be in accordance with the design, (2) the workmanship to be of adequate quality, and (3) the material requirements to have been met. This provides increased assurance that these HVAC systems will perform satisfactorily in service. Therefore, the staff concludes that upon staff acceptance of the technical aspects of the Braun program, HVAC concerns provide no justification for restricting the power level of the facility to less than full power.