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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION



In the Matter of)
)
THE CINCINNATI GAS & ELECTRIC)
COMPANY, ET AL.)

(Wm. H. Zimmer Nuclear Power)
Station)

Docket No. 50-358

APPLICANT'S FURTHER RESPONSES
TO "INTERVENOR MIAMI VALLEY POWER PROJECT'S
THIRD SET OF INTERROGATORIES TO APPLICANT"

June 15, 1979

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QUESTION 8:

Describe Husky Products, Inc.'s incentive system for welding.

RESPONSE:

Incentive earnings are paid to an operator for producing work in excess of a set performance level which is completely acceptable from the standpoint of meeting all specifications and quality requirement.

The performance level standard includes sufficient time for inspection by each operator. Each operator is required to inspect his work at a specified frequency, and is responsible, in the first instance, for making certain that the work he is producing is acceptable.

When work is produced which is not acceptable, incentive earnings are not paid to the operator for that defective work.

QUESTION 14: Describe, in relation to the primary electrical system cable trays, the location of back-up electrical system cable trays.

RESPONSE: With regard to the circuits which have a safety function (Class 1E) in the Zimmer Station, there are no "primary" or "back-up electrical system cable trays". There are three safety divisions as described in Section 8.3.1.11 of the FSAR. Trays of different divisions carrying Class 1E cables are separated in accordance with the criteria contained in Section 8.3.1.11 of the FSAR.

QUESTION 41: What is the IEEE standard designation for cables used at Zimmer? If there is more than one designation, explain where each is used.

RESPONSE: All Class 1E cables in cable trays which are used on Zimmer Station are qualified in accordance with IEEE 323 and have been tested to the requirements of IEEE 383.

QUESTION 43: List each type of conductor in the cable trays and the temperature ratings of each.

RESPONSE: Conductors other than instrument cable in the cable trays are copper. In the case of instrument cables, the conductors are copper, copper/constantan, chromel alumel or chromel/constantan. All cable conductors are rated at least 90°C.

QUESTION 44: Describe in detail how the addition of conductors to the cable trays beyond original design will affect ambient temperature.

RESPONSE: Limitations on the amount of cable to be placed in a power tray assure that the 90°C cable rating will not be exceeded. Specific calculations have shown that with the Zimmer configuration of power trays, the temperature rating of the cables will not be approached.

QUESTION 45: Describe in detail how the addition of fire insulation around the cable trays will affect ambient temperature.

RESPONSE: The addition of fire insulation around cable trays will affect the ambient temperature around the cables if a tray contains power cables. For fire insulated power cable trays, the coincidental loading on the individual cable and their thermal rise have been analyzed so that the temperature during plant operation will not exceed the 90°C rating of the cable.

Question 65: State and document the tolerance standard for foreign material (specifically metal shaving) in the reactor vessel allowable by quality assurance criteria.

RESPONSE: After assembly of the reactor was completed and prior to filling with water, the reactor vessel and internals were cleaned of all soils, miscellaneous materials and other foreign materials. The entire vessel and core structure was cleaned locally and then rinsed or flushed to remove soluble contaminants and particulate matter. As part of the Construction Acceptance test, the primary system must be free of particles larger than 1/32 inch thick and 1/16 inch long. After the reactor is filled with demineralized water, the Reactor Water Cleanup System filter would filter out any particulate matter not previously removed.

QUESTION 66: Describe all risks to the reactor, the primary cooling pump, the heat exchanger and all valves and seals associated with the above mechanisms should the tolerance standard for foreign materials in the reactor vessel be exceeded.

RESPONSE: All systems which are sensitive to particulate matter are filtered. The type and size of filters are selected to stop any particles which could harm the particular system.

QUESTION 76: In case of radioactive leakage due to improperly set seals, describe procedures for clean up of leaked material.

RESPONSE: The control rod seals referenced are utilized only during cold shutdown conditions when control rod drive maintenance is being performed. Any leakage past the seals would be collected in the drywell floor drain sump which discharges to the Reactor Building Floor Drain tank and would be processed in the Liquid Radwaste System as described in FSAR Section 11. 3. Water leaking past a seal could possibly contaminate portions of the undervessel rod drive support structures as the water drains to the sump. These support structures are coated for ease of decontamination. If required, decontamination would consist of flushing the structures with demineralized water and wiping with absorbant decon rags.

VERIFICATION

State of Ohio)
County of Hamilton) ss

Earl A. Borgmann, being first duly sworn, states that he is Senior Vice President for The Cincinnati Gas & Electric Company; that he has been duly authorized to execute, verify and file the foregoing document "Applicant's Further Responses to 'Intervenor Miami Valley Power Project's Third Set of Interrogatories to Applicant'"; that he has read the contents of same and that the statements contained therein are true and correct to his best information, knowledge and belief.

Earl A. Borgmann
Earl A. Borgmann

Subscribed and sworn to before me this 15th day
of June, 1979.

Margaret L. Huber
Notary Public

MARGARET L. HUBER
Notary Public, State Of Ohio
My Commission Expires Aug. 13, 1983

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CERTIFICATE OF SERVICE

I hereby certify that copies of "Applicant's Further Responses to Intervenor Miami Valley Power Project's Third Set of Interrogatories to Applicant", dated June 15, 1979, in the captioned matter, were served upon the following by deposit in the United States mail this 15th day of June, 1979.

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