



March 15, 1984  
JPN-84-17

Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Mr. Domenic B. Vassallo, Chief  
Operating Reactors Branch No. 2  
Division of Licensing

Subject: James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333  
Licensed Material Disposal Procedures  
10 CFR 20.302

References: 1: NYPA letter, J. P. Bayne to D. B. Vassallo,  
dated August 8, 1983 (JPN-83-74) regarding  
the same subject .

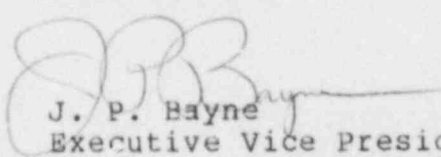
Dear Sir:

In accordance with the provisions of 10 CFR 20.302, the  
Authority submitted a description of our proposed disposal  
procedure for a small quantity of contaminated fuel oil  
(Reference 1).

In a recent telephone conversation, the NRC Licensing  
Project Manager for the FitzPatrick plant requested  
further information regarding these procedures.  
Attachment No. 1 is our response to this request. In  
addition, we have revised the attachment originally  
included with Reference 1 to reflect these responses.  
This revision is included as Attachment No. 2 to this  
letter.

If you have any further questions, please contact  
Mr. J. A. Gray, Jr. of my staff.

Very truly yours,

  
J. P. Bayne  
Executive Vice President

cc: Office of the Resident Inspector  
U.S. Nuclear Regulatory Commission  
P.O. Box 136  
Lycoming, NY 13093

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Attachment No. 1 to JPN-84-17  
New York Power Authority

James A. FitzPatrick Nuclear Power Plant

Response to Verbal Request for Additional Information  
Regarding Contaminated Fuel Oil Disposal

1. Question:

What is the concentration and total quantity of radioactive materials in waste oil container No. 6 (possible typo in your submittal)?

Response:

Number 6 waste oil container total activity should have been 11.05  $\mu$ Ci.

2. Question:

What is the dose rate at the surface of the worst drum?

Response:

The dose rate at the surface of all drums using a portable GM detector indicated no activity above a background of 150 cpm.

3. Question:

What is the maximum burn rate of oil? What is the stack volumetric flow rate at the release point during average burn rate and during maximum burn rate?

Response:

Presented in Table No. 1 is the oil burn rate and stack volumetric flow rate for maximum and average boiler operation.

4. Question:

What is the identification and location of the release point?

Response:

The auxiliary boilers exhaust through a 60 inch diameter vent pipe located and attached to the Reactor Building's north side. It is located in a chimney which also houses the Reactor Building and Turbine Building vent pipes (identified as release points 1 and 2). The discharge point is at elevation 446 ft. 9 in.

5. Question:

What are the quantities of radioactive materials retained by dust collection and fly-ash collection systems and means of disposal?

Response:

Radioactive material is analyzed for but has not been detected in the fly-ash at FitzPatrick. Nonradioactively contaminated fly-ash is disposed of in a chemical waste landfill.

Design criteria for the dust collector is included in Table No. 2.

Table No. 1

Oil Burn Rates and Stack Volumetric Flow  
Rates for Maximum and Average Boiler Operation

| <u>Steaming Rate</u>       | <u>Fuel Oil Burn Rate</u> | <u>Design Gas Flow</u>  |
|----------------------------|---------------------------|---|
| Maximum<br>(60,000 lbs/hr) | 496.2 gal/hr              | 24,700 cfm @ 550°F and<br>23,775 cfm with 50°F<br>loss in stack |
| Average<br>(20,000 lbs/hr) | 165 gal/hr                | 7,010 cfm @ 400°F and<br>6,195 cfm with 100°F<br>loss in stack  |

Table No. 2

FitzPatrick Auxiliary Boiler Dust Collector Design Criteria

|  |               |
|--|---------------|
| Type   | Multiple tube |
| No. of collectors  | 2             |
| Boiler output, steam   | 60,000 Lb/Hr  |
| Flue gas temp.   | 600°F         |
| Flue gas flow @ 600°F  | 32,500 cfm    |
| Guaranteed efficiency<br>(based on weight of the<br>gas borne solids, based<br>on typical analysis as<br>shown below.) | 90%           |

| <u>Particle Size</u> | <u>% in Gas Stream</u> |
|----------------------|------------------------|
| Over 60 microns      | 8.5                    |
| 60-40                | 7.0                    |
| 40-30                | 7.5                    |
| 30-20                | 12.0                   |
| 20-15                | 10.0                   |
| 15-10                | 15.0                   |
| 10-7.5               | 9.5                    |
| Below 7.5            | 30.5                   |
|                      | <u>100.0</u>           |