

James A. FitzPatrick  
Nuclear Power Plant  
P.O. Box 41  
Lycoming, New York 13093  
315 342.3840



Harry P. Salmon, Jr.  
Site Executive Officer

February 20, 1996  
JAFF-96-0067

United States Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Mail Station P1-137  
Washington, DC 20555

**SUBJECT: James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333  
Request to New York State Department of Environmental  
Conservation to Process Water Contaminated with  
Chlorinated Solvents and Radioactivity at the James A.  
FitzPatrick Nuclear Power Plant**

**Reference: NYPA letter (JAFF-96-0061), H. P. Salmon, Jr., to New York State  
Department of Environmental Conservation (DEC), dated February 7,  
1996, same subject**

Dear Sir:

This letter transmits an informational copy of the subject request. This request was submitted to the DEC pursuant to New York State Regulations.

If you have any questions, please contact Mr. Art Zaremba at 315-349-6365.

Very truly yours,

Harry P. Salmon, Jr.

HPS:RWB:las  
Attachment

cc: See next page.

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cc: Regional Administrator  
U. S. Nuclear Regulatory Commission  
475 Allendale Road  
King of Prussia, PA 19406

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

Mr. C. E. Carpenter, Jr., Project Manager  
Project Directorate I-1  
Division of Reactor Projects-I/II  
U. S. Nuclear Regulatory Commission  
Mail Stop 14 B2  
Washington, DC 20555

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Harry P. Salmon, Jr.  
Site Executive Officer

February 7, 1996  
JAFP-96-0061

Environmental Analyst 1  
New York State Department  
of Environmental Conservation  
615 Erie Blvd. West  
Syracuse, NY 13204-2400

Attn: Ms. Joanne March

SUBJECT: REQUEST TO PROCESS WATER CONTAMINATED WITH  
CHLORINATED SOLVENTS AND RADIOACTIVITY AT THE  
NEW YORK POWER AUTHORITY'S  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

RE: NYD000765073

Dear Ms. March:

The New York Power Authority (NYPA) requests authorization in accordance with 6 NYCRR 373-1.7.f to process 6000 gallons of water contaminated with low levels of tetrachloroethane (from 1.5-45 ppm), trichloroethane (from 1.1-140 ppm), and dichloroethylene (from 21-64 ppm) and low levels of radioactivity ( $4.3E-4 \mu\text{Ci/ml}$ ). This request is based on telephone conversations between Mr. Robert Brown, Mr. Alfred Jarvis, and Mr. John Kahabka of NYPA staff and Mr. Brian Rogers of NYSDEC Regional staff. Processing is necessary to minimize the amount of waste material needing management under our 6 NYCRR 373 B permit.

1. Generation of the contaminated water - The water was generated during cleaning and decontamination of our Auxiliary Boiler Room Oil/Water Separator. This oil/water separator is permitted SPDES Outfall 002A. This Oil/Water Separator was radioactively contaminated during the March 1991 Unmonitored Radiation Release Event described in our Licensee Event Report 91-004 to the Nuclear Regulatory Commission. The Oil/Water Separator has been isolated since 1991. Corrective actions to prevent reoccurrence have been implemented. The most likely source of the chlorinated solvents is leaching from the sludge in the bottom of the oil/water separator. Chlorinated solvents were used prior to January 1987 as a degreaser and thread penetrant and are no longer allowed to be used at this facility. Actions have been taken to clean and prepare the oil/water separator for return to service. During the summer of 1995, cleaning was performed by NYPA

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staff using non-hazardous aqueous solvents, mechanical scrubbing, and high pressure water wash. A contractor was requested provide a proposal for processing of the Oil/Water Separator water. The contractor's process would dispose of the water and return the process waste generated to NYPA. The returned process waste would have been stored on-site as low-level radioactive waste. The contractor required that the water be analyzed for hazardous constituents because they only possess a license to treat radioactive material. The results of the analyses indicated the possibility the water contained hazardous constituents. Verification samples were taken and the results confirmed on 12/15/95. The contractor notified NYPA that they were not able to process water that contained hazardous constituents.

2. Disposal/Treatment - NYPA's current plan is to treat the water on site using conventional water treatment technologies (i.e. mechanical filtration, carbon filtration, and ion exchange) similar to those that are used in the plant's radioactive waste water treatment system. We expect that in addition to the radioactivity that the hazardous constituents will also be removed from the water. Most of the 0.01 curies of radioactivity and 2,143 grams of chlorinated solvents will be removed during treatment. The resultant process waste is estimated to be less than 30 cubic feet and will most likely become a mixed waste. Removal efficiency for the contaminants is expected to be very high. Verification of contaminant removal will be accomplished by laboratory analysis of the processed water.

An alternate method for disposal is shipment of the contaminated water off-site to an approved Treatment, Storage, and Disposal facility. The transfer, transportation, the resulting cost for this alternate disposal method would be very high, estimated at \$750,000. NYPA is currently evaluating the economics of this option.

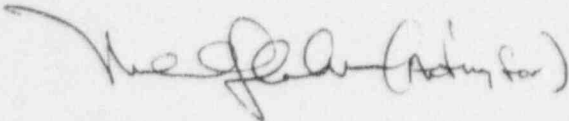
3. Interim Storage/Handling - The contaminated water is currently stored in four (4) steel containers with a capacity of 1500 gallons each. Two (2) of the containers are stored inside the plant's turbine track bay area and a postulated leak would drain to the plant water treatment system. Two (2) containers are located in the waste oil storage building. This building has an eight inch dike area coated with epoxy paint rendering the containment impermeable. A leak would be entirely contained within the diked area. If a leak were to occur, the contaminated water would be collected in containers. Both interim storage areas are inspected weekly using approved procedure guidance.

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If you have any further question concerning this matter, please contact Mr. Robert Brown of the plant staff at 315-349-6725 or Mr. John Kahabka of the corporate staff at 914-681-6308.

Thank you for you interest and cooperation in this matter.

Very truly yours,



HARRY P. SALMON, JR.  
SITE EXECUTIVE OFFICER

  
HPS/AJ/APM/jbh

cc: Paul Counterman (NYSDEC/Albany)      Brian Rogers (NYSDEC/Region 7)  
James Redy (USEPA/Region 2)      A. Zaremba  
J. Blake (WPO)      A. McKeen  
J. Kahabka (WPO)      A. Jarvis  
R. Smith (WPO)      J. Loeffert  
T. Carroll