

POWER AUTHORITY OF THE STATE OF NEW YORK

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April 21, 1981  
JPN-81-27

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

Attention: Mr. Thomas A. Ippolito, Chief  
Operating Reactors Branch No. 2  
Division of Licensing

Subject: James A. FitzPatrick Nuclear Power Plant  
Docket No. 50-333  
TMI Action Plan Item III.A.1.2  
Upgrade Emergency Support Facilities



Dear Sir:

This letter is submitted in response to NRC generic letter 81-10 dated February 18, 1981. The Power Authority will provide conceptual design information for the Emergency Response Facilities (ERFs) by September 15, 1981. Also, based on preliminary review of Item III.A.1.2 clarification, NUREG-0696 and discussions with vendors, these facilities may not be operational on October 1, 1982. However, since our evaluation is not completed an alternate schedule can not be provided at this time. Accordingly, the Power Authority will submit, along with the conceptual design information, a schedule for providing the ERFs operational.

It should be noted that the FitzPatrick facility currently has operational an interim Technical Support Center (TSC) and Emergency Support Facility (EOF). These emergency facilities presently have the installed capability regarding data acquisition as follows:

TSC

Access to the JAFNPP process computer is provided via a video terminal and/or a high speed printer. 1600 input points (800 analog and 800 digital) are provided. A 2-pen recorder can be used to record trends selected from the process computer. The video display can also be used as a repeater of either of the two control room video displays.

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EOF (which is located within 2 miles of the plant)

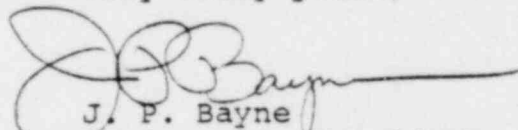
A video terminal via dial-up telephone line and modem is used to access the plant's process computer. This is a portable system which can be transported to the back-up off-site EOF (located in Oswego approximately 10 miles from the plant) in event the on-site EOF must be evacuated.

With respect to emergency staffing, the Power Authority has indicated that the additional SRO will be provided November 3, 1982 rather than July 1, 1982. The additional time is necessary for hiring and training. Detailed justification for this delay was previously submitted via PASNY letter from J.P. Bayne to D.G. Eisenhut JPN-80-55 dated December 4, 1980.

Finally, the Power Authority considers that the augmentation of personnel within thirty minutes is impractical. Based on the Power Authority's experience, a sixty minute call-out period is more reasonable. It is the Power Authority's intention to upgrade it's staff within the next several months as shown in attachments one through four. As can be seen from these attachments, the Power Authority considers that the shift staff provided is sufficient to handle the activities within the sixty minutes until augmented personnel is available.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

  
J. P. Bayne  
Senior Vice President  
Nuclear Generation

cc: Mr. J. Linville  
Resident Inspector  
P. O. Box 41  
Lycoming, New York 13093

## ATTACHMENT NO. 1 - STAFFING AS OF APRIL 1, 1981

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (RO)	1		
	Nuclear Control Operator (RO)	1		
	Auxiliary Operators	3		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager, or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	1
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (On-Call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician or Auxiliary Operator - In-plant Surveys	1	(1)	2
	RES Technicians (HP/Chem.)	1	(3)	1
	RES Technician - out-of-plant and off-site surveys			4
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic	1	(4)	

## ATTACHMENT NO. 1 - STAFFING AS OF APRIL 1, 1981

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance			1
	Electrical Maintenance			1
	Instrumentation and Control Technician			1
	Radwaste Operator	1	(1)	
Firefighting	Plant Fire Brigade	5	(1)	Local Support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(5)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the on-call supervisor, may assume the duties of Emergency Director and Radiological Support Coordinator concurrently,
- 3) RES Technician coverage is maintained Monday - Friday 2400. Technicians are available on a call-out basis Friday 2400 - Monday 0000.
- 4) Core thermal/hydraulic expertise is provided by the Shift Supervisor.
- 5) In accordance with the physical security plan.

## ATTACHMENT NO. 2 - STAFFING AS OF SEPTEMBER 1, 1981

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SR0)	1		
	Senior Nuclear Operator (RO)	1		
	Nuclear Control Operator (RO)	1		
	Auxiliary Operators	3		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager, or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	3
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (on-call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician or Auxiliary Operator - In-plant Surveys	1	(1)	2
	RES Technician (HP/Chem)	1	(3)	1
	RES Technician - out-of-plant and off-site surveys			6
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic	1	(4)	

ATTACHMENT NO. 2 - STAFFING AS OF SEPTEMBER 1, 1981

PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance			1
	Electrical Maintenance			1
	Instrumentation and Control Technician			1
	Radiowaste Operator	1	(1)	
Firefighting	Plant Fire Brigade	5	(1)	Local support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(5)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Functions performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the on-call supervisor may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) RES Technician coverage is maintained Monday - Friday 2400. Technicians are available on a call-out basis Friday 2400 - Monday 0000.
- 4) Core thermal/hydraulic expertise is provided by the Shift Supervisor.
- 5) In accordance with the physical security plan.

## ATTACHMENT NO. 3 - STAFFING AS OF JULY 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (RO)	1		
	Nuclear Control Operator (RO)	1		
	Auxiliary Operators	3		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	3
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (on-call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician - in-plant surveys	1		2
	RES Technician (HP/Chem)	1		1
	RES Technician - out-of-plant and off-site surveys			6
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic			1
	Electrical			1
	Mechanical			1



## ATTACHMENT NO. 3 - STAFFING AS OF JULY 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance	1	(1)	1
	Electrical Maintenance	1	(1)	2
	Instrumentation and Control Technician			1
	Radwaste Operator	1		
	RES Technician (HP/Chem)			4
Firefighting	Plant Fire Brigade	5	(1)	Local support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(3)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the On-Call Supervisor, may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) In accordance with the physical security plan.



## ATTACHMENT NO. 4 - STAFFING AS OF NOVEMBER 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (SRO)	1		
	Reactor Operator (RO)	2		
	Auxiliary Operators	2		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager, or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	3
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (on-call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician - in-plant surveys	1		2
	RES Technician (HP/Chem)	1		1
	RES Technician - out-of-plant and off-site surveys			6
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic			1
	Electrical			1
	Mechanical			1

## ATTACHMENT NO. 4 - STAFFING AS OF NOVEMBER 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Six Minutes)
Repair and Corrective Actions	Mechanical Maintenance	1	(1)	1
	Electrical Maintenance	1	(1)	2
	Instrumentation and Control Technician			1
	Radwaste Operator	1		
	RES Technician (HP/Chem)			4
Firefighting and Rescue	Plant Fire Brigade/Rescue Brigade	5	(1)	Local support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(3)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the On-Call Supervisor, may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) In accordance with the physical security plan.

## ATTACHMENT NO. 1 - STAFFING AS OF APRIL 1, 1981

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (RO)	1		
	Nuclear Control Operator (RO)	1		
	Auxiliary Operators	3		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager, or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	1
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (On-Call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician or Auxiliary Operator - In-plant Surveys	1	(1)	2
	RES Technicians (HP/Chem.)	1	(3)	1
	RES Technician - out-of-plant and off-site surveys			4
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic	1	(4)	

## ATTACHMENT NO. 1 - STAFFING AS OF APRIL 1, 1981

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance			1
	Electrical Maintenance			1
	Instrumentation and Control Technician			1
	Radwaste Operator	1	(1)	
Firefighting	Plant Fire Brigade	5	(1)	Local Support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(5)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the on-call supervisor, may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) RES Technician coverage is maintained Monday - Friday 2400. Technicals are available on a call-out basis Friday 2400 - Monday 0000.
- 4) Core thermal/hydraulic expertise is provided by the Shift Supervisor.
- 5) In accordance with the physical security plan.

ATTACHMENT NO. 2 - STAFFING AS OF SEPTEMBER 1, 1981

PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (RO)	1		
	Nuclear Control Operator (RO)	1		
	Auxiliary Operators	3		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager, or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	3
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (on-call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician or Auxiliary Operator - In-plant Surveys	1	(1)	2
	RES Technician (HP/Chem)	1	(3)	1
	RES Technician - out-of-plant and off-site surveys			6
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic	1	(4)	

ATTACHMENT NO. 2 - STAFFING AS OF SEPTEMBER 1, 1981

PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance			1
	Electrical Maintenance			1
	Instrumentation and Control Technician			1
	Radwaste Operator	1	(1)	
Firefighting	Plant Fire Brigade	5	(1)	Local support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(5)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the on-call supervisor may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) RES Technician coverage is maintained Monday - Friday 2400. Technicians are available on a call-out basis Friday 2400 - Monday 0000.
- 4) Core thermal/hydraulic expertise is provided by the Shift Supervisor.
- 5) In accordance with the physical security plan.

## ATTACHMENT NO. 3 - STAFFING AS OF JULY 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (RO)	1		
	Nuclear Control Operator (RO)	1		
	Auxiliary Operators	3		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	3
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (on-call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician - in-plant surveys	1		2
	RES Technician (HP/Chem)	1		1
	RES Technician - out-of-plant and off-site surveys			6
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic			1
	Electrical			1
	Mechanical			1



## ATTACHMENT NO. 3 - STAFFING AS OF JULY 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance	1	(1)	1
	Electrical Maintenance	1	(1)	2
	Instrumentation and Control Technician			1
	Radwaste Operator	1		
	RES Technician (HP/Chem)			4
Firefighting	Plant Fire Brigade	5	(1)	Local support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(3)	

NOTES:

- 1) Personnel performing these duties on-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the On-Call Supervisor, may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) In accordance with the physical security plan.

## ATTACHMENT NO. 4 - STAFFING AS OF NOVEMBER 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Plant Systems Operations	Shift Supervisor (SRO)	1		
	Senior Nuclear Operator (SRO)	1		
	Reactor Operator (RO)	2		
	Auxiliary Operators	2		
	Shift Technical Advisor	1		
Emergency Director	Shift Supervisor, Resident Manager, or Designated Alternate	1	(1)	
Notification/Communication	Security Guard	1	(1)	3
Radiological Accident Assessment	Emergency Director	1	(1)	
	Radiological and Environmental Services (RES) Superintendent or other RES Supervisor		(2)	1
	Senior Manager (on-call Supervisor)			1
Radiation Protection Functions/Radiological Surveys	RES Technician - in-plant surveys	1		2
	RES Technician (HP/Chem)	1		1
	RES Technician - out-of-plant and off-site surveys			6
Plant Systems Engineering	Shift Technical Advisor	1	(1)	
	Core Thermal/Hydraulic			1
	Electrical			1
	Mechanical			1

## ATTACHMENT NO. 4 - STAFFING AS OF NOVEMBER 1, 1982

## PLANT PERSONNEL - EMERGENCY ACTIVITY ASSIGNMENTS

MAJOR FUNCTIONAL AREA	POSITION, TITLE OR EXPERTISE	NUMBER ON SHIFT	NOTES	NUMBER AVAILABLE (Within Sixty Minutes)
Repair and Corrective Actions	Mechanical Maintenance	1	(1)	1
	Electrical Maintenance	1	(1)	2
	Instrumentation and Control Technician			1
	Radwaste Operator	1		
	RES Technician (HP/Chem)			4
Firefighting and Rescue	Plant Fire Brigade/Rescue Brigade	5	(1)	Local support via Oswego County Fire Coordinator
Security and Personnel Accountability	Security Force		(3)	

NOTES:

- 1) Personnel performing these duties On-shift may be assigned other duties. Function performed by Shift personnel assigned other duties.
- 2) The Radiological and Environmental Services Superintendent, if serving as the On-Call Supervisor, may assume the duties of Emergency Director and Radiological Support Coordinator concurrently.
- 3) In accordance with physical security plan.