

December 9, 1982



SECY-82-483

CODE

For: The Commission

## **POLICY ISSUE**

From: William J. Dircks  
Executive Director for Operations (Information)

Subject: TMI-1 RESTART CERTIFICATION STATUS AND NUREG-0737 ITEMS  
STATUS UPDATE

Purpose: To inform the Commission of the present status of the TMI-1  
restart certification effort and provide an update on NUREG-0737  
items status.

Discussion: Restart Certification Status

On October 6, 1982, the staff briefed the Commission on the status of certification of short term requirements on TMI-1. At that time, GPU Nuclear (the licensee) had completed 93 of 129 restart certification items, and the staff had completed 65 items. Since that time, the licensee has completed nine additional items, and the staff has completed ten items. However, three items previously reported as having been completed by the licensee have been reopened pending the licensee's resolution of issues identified during staff inspections. Additionally, the Appeal Board has since imposed two certification items pertaining to emergency planning (ALAB 697 at 34, 49 and ALAB 698 at 48, 58). These items require PEMA, FEMA and staff action, but do not require licensee action. To summarize, as of November 30, 1982, the licensee has completed 99 of 129 certification items, and the staff has completed 75 of 131 certification items. The enclosed restart certification items summary and status list from the October 6, 1982 briefing have been updated to reflect certification status as of November 30, 1982. Also enclosed are a certification completion schedule and a table showing the current distribution of the next certification actions by organization.

The licensee expects to complete its remaining certification items, except for 11 items that require hot functional or power escalation testing to complete, by January 1983. The staff expects to complete its remaining certification items, except for 12 items that require hot functional or power escalation testing to complete, prior to the end of February 1983.

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12-6-81

Because of modifications to the steam generator repair schedule, the licensee has now scheduled hot functional and power escalation testing for March and April 1983, respectively.

NUREG-0737 Items Status Update

With respect to the four NUREG-0737 items which the Commission granted schedule delays until March 31, 1983 or restart, whichever is later, the licensee has indicated the following completion status: Items II.F.1.4, Containment Pressure Monitoring and II.F.1.5, Containment Water Level Monitoring are now complete. Under Item II.B.3, Post Accident Sampling, the containment atmosphere sampling portion of this modification is complete and the RCS sampling portion is scheduled to be completed in December 1982. Similarly, Item II.F.1.6, Containment Hydrogen Monitoring, is scheduled for completion in December 1982.



William J. Dircks  
Executive Director for Operations

Enclosures:

1. Certification Items Summary
2. Schedule for Completion  
of Certification
3. Distribution of Certification  
Item Actions
4. TMI-1 Restart Certification  
Status - Items Remaining

DISTRIBUTION:  
Commissioners  
OGC  
OPE  
ACRS  
SECY

ENCLOSURE 1

SUMMARY  
CERTIFICATION ITEMS

I. AUGUST 9, 1979 ORDER  
SHORT TERM ITEMS

1. EFW RELIABILITY
2. IE BULLETINS
3. EMERGENCY PREPAREDNESS
4. SEPARATION OF TMI-1/2
5. WASTE MANAGEMENT
6. MANAGERIAL CAPABILITY
7. FINANCIAL QUALIFICATIONS
8. CATEGORY "A" LESSONS LEARNED

II. ASLB IMPOSED REQUIREMENTS  
(SHORT TERM)

- A. MGMT PID
- B. PLANT DESIGN PID
- C. EMERGENCY PLANNING PID
- D. CHEATING PID

III. APPEAL BD IMPOSED REQMTS

# OF ITEMS	UTILITY		NRC REVIEW	
	COMPLETE	NOT COMPLETE	COMPLETE	NOT COMPLETE
19	14 (13)	5 (6)	13 (12)	6 (7)
24	20	4	19	5
1	1	0	1	0
7	6 (7)	1 (0)	5 (1)	2 (6)
2	1	1	1	1
12	10	2	9	3
N/A				
21	17 (15)	4 (6)	11 (10)	10 (11)
10	8 (6)	2 (4)	4	6
21	15 (14)	6 (7)	10 (7)	11 (14)
8	6	2	1	7
4	1 (0)	3 (4)	1 (0)	3 (4)
2*(0)	0	0	0	2
TOTALS	131 (129)	30 (36)	75 (55)	56 (64)

(PREVIOUS REPORT)

\*APPLY ONLY TO NRC REVIEW SINCE NO LICENSEE ACTION IS REQUIRED.

ENCLOSURE 2

SCHEDULE FOR COMPLETION OF CERTIFICATIONUTILITY COMPLETION SCHEDULE

	<u>OCTOBER 6 PLAN</u>	<u>ACTUALLY COMPLETED</u>	<u>REVISED PLAN</u>
OCTOBER 1982	7	5	-
NOVEMBER 1982	14	1	-
DECEMBER 1982	2		18
JANUARY 1983	2		1
FEBRUARY 1983	0		0
HFT	6	-	6
RESTART	<u>5</u>	<u>-</u>	<u>5</u>
	36	6	30

NRC COMPLETION SCHEDULE

	<u>OCTOBER 5 PLAN</u>	<u>ACTUALLY COMPLETED</u>	<u>REVISED PLAN</u>
OCTOBER 1982	12	9	-
NOVEMBER 1982	15	1	-
DECEMBER 1982	19		15
JANUARY 1983	6		21*
FEBRUARY 1983	-		8
HFT	6	-	6
RESTART	<u>6</u>	<u>-</u>	<u>6</u>
	64	10	56*

\*REFLECTS TWO ADDITIONAL ITEMS FROM ALAB 697, 698

ENCLOSURE 3

DISTRIBUTION OF CERTIFICATION ITEM ACTIONS\*

<u>ACTION ORGANIZATION</u>	<u>REMAINING ACTIONS AS OF OCTOBER 6, 1982</u>	<u>ACTIONS COMPLETED</u>	<u>ACTIONS REOPENED OR GAINED</u>	<u>PRESENT REMAINING ACTIONS</u>
GPU	22	9	6	19
REGION I	19	11	6	14
NRR	6	4	2	4
IE	<u>5</u>	<u>0</u>	<u>2</u>	<u>7</u>
	52**			44**

\*MOST CERTIFICATION ITEMS REQUIRE A SEQUENCE OF ACTIONS TO COMPLETE; SUCH AS NRR REVIEW, GPU MODIFICATION, AND REGION I VERIFICATION. THIS TABLE PRESENTS A "SNAP SHOT" OF WHICH ORGANIZATION HAS THE NEXT RESPONSIBILITY FOR THE REMAINING ACTION AS OF NOVEMBER 30, 1982.

\*\*EXCLUDES 12 ITEMS THAT REQUIRE HOT FUNCTIONAL TESTING, RESTART, OR POWER OPERATION TO COMPLETE.



ENCLOSURE 4

TMI-1 RESTART CERTIFICATION STATUS - ITEMS REMAINING  
1. AUGUST 9, 1979 ORDER REQUIREMENTS

NOVEMBER 30, 1982

Enclosure 4

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>ITEM TYPE</u>	<u>LICENSEE STATUS</u>	<u>INSPECTION/REVIEW STATUS</u>	<u>ESTIMATED COMPLETION/REMARKS</u>
<u>A. SHORT TERM</u>					
<u>ORDER ITEM 1</u>					
1A-1	EFW RELIABILITY				
1A-1	AUTO INITIATION OF EFW	MOD	COMPLETE	COMPLETE	EXCEPT POWER ESCALATION TESTING
1A-3	AUTO EFW LOAD ON DIESELS	MOD	COMPLETE EXCEPT TESTING	PARTIALLY COMPLETE	TESTING DURING HFT
1A-4	EFW TECH SPECS	TECH SPECS	PROCEDURES EST. 12/82	NRR COMPLETE, REG 1 TO VERIFY PROC.	1/83
1A-8	EFW AUTO START ANNUNCIATION	MOD	COMPLETE	COMPLETE	EXCEPT POWER ESCALATION TESTING
<u>1A ADDITIONAL ITEMS</u>					
1	RELIABILITY ANALYSIS				
	CWST LEVEL ALARM	MOD	COMPLETE	PARTIALLY COMPLETE 12/82	
6	EFW INITIATION INDEPENDENT OF AC	MOD	REWORK IN PROGRESS EST. 12/82	PARTIALLY COMPLETE	1/83 EXCEPT HFT
8	CROSS-TIE BREAK	ANALYSIS	COMPLETE	COMPLETE	
<u>ORDER ITEM 2</u>					
IE BULLETINS					
79-05A-2	PLANT TRANSIENT REVIEW	INSPECTION	COMPLETE	SCHEDULED 12/82	12/82
79-05A-5	VALVE POSITION REVIEW	PROCEDURES	—	—	VALVE LINEUP VERIFICATION AT TIME OF RESTART
79-05A-6	CONTAINMENT ISOLATION	MOD	SEE ORDER ITEM 8 2.1.4	SEE ORDER ITEM 8 2.1.4	
79-05B-5	ANTICIPATORY REACTOR TRIP (SAFETY GRADE)	MOD	COMPLETE	COMPLETE	EXCEPT POWER ESCALATION TESTING
79-05B-7	TECH SPEC CHANGES	TECH SPECS	PROCEDURES EST. 12/82	NRR COMPLETE REGION 1 TO VERIFY	1/83

ITEM	DESCRIPTION	ITEM TYPE	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/ REMARKS
<u>ORDER ITEM 4</u>	SEPARATION OF TMI-1 & 2				
	A) LIQUID RADWASTE - INTERCONNECTION ISOLATION	Mod	RESOLVE OI EST. 12/82	PARTIALLY COMPLETE	1/83
	B) GASEOUS RADWASTE - LEAK TEST OF WASTE SYSTEM - FUEL HANDLING BUILDING ISOLATION	TEST Mod	COMPLETE COMPLETE	PARTIALLY COMPLETE COMPLETE	1/83
	- FUEL HANDLING BUILDING VENTILATION SYS. MOD.	Mod	COMPLETE	COMPLETE	
	C) SOLID RADWASTE - TMI-1/2 TRASH SEGREGATION	PROCEDURES	COMPLETE	COMPLETE	
	D) SAMPLING SYSTEM - INDEPENDENT TMI-2 SAMPLING SYSTEM	Mod	COMPLETE	COMPLETE	
<u>ORDER ITEM 5</u>	WASTE MANAGEMENT				
	B) SOLID RADWASTE - LOW ACTIVITY STOR. EXPANSION	Mod	RESOLVE OI EST. 12/82	PARTIALLY COMPLETE	1/83
<u>ORDER ITEM 6</u>	MANAGERIAL CAPABILITY				
	C) HEALTH PHYSICS - QUALIFICATION RECORDS	TRAINING	COMPLETE	PARTIALLY COMPLETE	2/83
	D) NUREG-0694 ITEMS - II.B.4 TRAINING RECORDS FOR MITIGATING CORE DAMAGE	TRAINING	PARTIALLY COMPLETE EST. 12/82	PARTIALLY COMPLETE	1/83
	E) INSPECTOR'S VIEWS - RESOLVE INSP. FINDINGS IN NUREG-0680	INSPECTION	PARTIALLY COMPLETE EST. 12/82	PARTIALLY COMPLETE	1/83

ITEM	DESCRIPTION	ITEM TYPE	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/REMARKS
<u>ORDER ITEM 8</u>	LESSONS LEARNED-SHORT TERM				
2.1.1	EMERGENCY POWER SUPPLY -PRESSURIZER HEATERS	Mod	COMPLETE	PARTIALLY COMPLETE	12/82
2.1.3A	VALVE POSITION INDICATION	Mod	COMPLETE	PARTIALLY COMPLETE	12/82
2.1.3B	INADEQUATE CORE COOLING -EXISTING INSTRUMENTATION & SATURATION METER	Mod	COMPLETE EXCEPT TESTING	COMPLETE	COMPLETE EXCEPT HFT
2.1.4	CONTAINMENT ISOLATION	Mod	TESTING EST. 12/82	PARTIALLY COMPLETE	1/83
2.1.5c					
2.1.7B	EPW FLOW INDICATION (CONTROL GRADE)	Mod	COMPLETE	SCHEDULED 1/83	LICENSEE INSTALLING SAFETY GRADE INST. IAW II.E.1.2 -1/83
2.1.8B	RADIATION MONITORS (CONTROL GRADE)	Mod			LICENSEE INSTALLING FINAL MONITORS IAW II.F.1 - 1/83
	A) HI RANGE RADIATION MONITORS		COMPLETE	SCHEDULED 2/83	
	B) NOBLE GAS MONITORS		1 ML ITEMS-EST. 1/83	SCHEDULED 2/83	
	C) RADIOTODINE/PARTICULATE MONITORS		1 ML ITEMS-EST. 12/82	SCHEDULED 2/83	
2.1.8c	IODINE INSTRUMENTATION	Mod	COMPLETE	SCHEDULED 2/83	2/83
2.2.1c	SHIFT TURNOVER	PROCEDURE	COMPLETE	COMPLETE	
2.2.2B	ONSITE TECH SUPPORT CENTER	Mod	COMPLETE	PARTIALLY COMPLETE	2/83

# II. ASLB IMPOSED REQUIREMENTS

PID ITEM	DESCRIPTION	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/ REMARKS
A. MANAGEMENT FINDINGS - AUGUST 27, 1981 PID				
II.D.	ACCURACY OF MAINTENANCE RECORDS	COMPLETE	PARTIALLY COMPLETE	1/83
II.M	5. BIDS AND SPECS FOR TMI-1 REPLICATE SIMULATOR	COMPLETE	PENDING	4/82 PREPARE BIDS/ISSUE SPECS 10/82 - FIRST OF LICENSEE ANNUAL REPORTS ON PROGRESS-EST. 12/82
	6. CONTRACT FOR BASIC PRINCIPLES TRAINER TO BE INSTALLED IN 1982	COMPLETE	PENDING	12/82
	7. EMERGENCY DIRECTOR/SUPPORT DIRECTOR TRAINING	PARTIALLY COMPLETE EST. 12/82	PENDING	2/83
	9. (A)-(G). LICENSEE CONDITIONS FOR SHIFT MANNING	COMPLETE	SCHEDULED AT RESTART	AT TIME OF RESTART, LICENSE CONDITION
	10. (A)-(C). MANAGEMENT SYSTEM TO PERFORM SPECIFIC FUNCTIONS RELATED TO OPERATING EXPERIENCE INFORMATION	RESOLVE OI EST. 12/82	PARTIALLY COMPLETE	1/83
B. PLANT DESIGN, MODIFICATION AND PROCEDURES FINDINGS - DECEMBER 14, 1981 PID				
II.C	STAFF REVIEW REVISED ATOG PROGRAM (PARA. 721)	GENERIC PROGRAM SUBMITTED	COMPLETE	
II.E	PRESSURIZER HEATERS DEMONSTRATE RCS PRESSURE CONTROL W/HPI (PARA. 755)	12/82 SUBMITTAL TO REG. 1	PENDING	1/83
II.K	COMPUTER - OPERATOR RELIANCE ON COMPUTER (PARA. 865)	COMPLETE	COMPLETE	
	- INCORE THERMOCOUPLE BACKUP DISPLAY (NOT SAFETY GRADE) (PARA. 867)	COMPLETE EXCEPT TESTING	PENDING	LICENSE CONDITION BEFORE 5% POWER-IFT

ITEM	DESCRIPTION	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/REMARKS
II.M	SAFETY SYSTEM STATUS PANEL -SYSTEM STATUS ADMIN. CONTROLS (PARA. 904)	COMPLETE	PARTIALLY COMPLETE	1/83
II.N	CONTROL ROOM DESIGN -CORRECT NUREG-0752 DEFICIENCIES (PARA. 914-915)	RESOLVE OIS, ST. 12/82	PARTIALLY COMPLETE	SHORT-TERM 1/83, LT DEFICIENCIES 1ST REFUEL AFTER RESTART (LICENSE CONDITION)
II.O	ADDITIONAL LOCA ANALYSIS -INSTALL HPI CAVITATING VENTURIS (PARA. 943)	COMPLETE EXCEPT TEST	COMPLETE EXCEPT TEST	HFT
II.P	SYSTEMS CLASSIFICATION -UPGRADE PRESSURIZER LEVEL INST. POWER SUPPLIES (PARA. 1001)	COMPLETE	SCHEDULED 12/82	12/82
II.Q	EFW RELIABILITY  A) EFW CAVITATING VENTURIS	COMPLETE EXCEPT TESTING	COMPLETE EXCEPT TESTING	HFT
	-PROPOSE MEANS TO PREVENT EFW ISOLATION DUE TO RUPTURE DETECTION SYSTEM FAILURE (PARA. 1064)	COMPLETE	COMPLETE	
II.S	BOARD QUESTIONS NUREG-0694 ITEMS (PARA. 1132)  -I.G.1-LOW POWER TESTING	PARTIALLY COMPLETE	NRR REVIEW PENDING	DURING LOW POWER TEST
II.T	EQUIPMENT QUALIFICATION -SIX BOARD CONDITIONS CONCERNING MATERIAL AGING & OTHER EQ ITEMS (PARA. 1163 & 1168)	COMPLETE	NRR COMPLETE, PG 1 TO VERIFY	1/83
	-STAFF REVIEW FLOOD LEVEL CALCULATIONS (PARA. 1174)	COMPLETE	NRR REVIEW PENDING	12/82

ITEM	DESCRIPTION	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/REMARKS
<u>C. SEPARATION OF TMI-1 AND TMI-2 FINDINGS- DECEMBER 14, 1981</u>				
III.B	-VENTILATION SEPARATION PROGRAM (PARA. 1267)	COMPLETE	NRR REVIEW PENDING	12/82
<u>D. EMERGENCY PLANNING FINDINGS</u>				
IV.L BOARD CONDI- TIONS	CONCLUSIONS PARAGRAPH 2010			
	A. EMERGENCY SUPPORT DIRECTOR STAFFING IN EOP PRIOR TO FULL EMERGENCY SUPPORT ORGANIZATION ARRIVAL (PARA. 2010(A))	COMPLETE	PENDING	*APPEAL BOARD HAS MODIFIED REQUIREMENT. LICENSEE WILL ABIDE BY BOARD FINDING PENDING RESOLUTION.
	B. STAFF REVIEW COUNTY EP BROCHURES AND FEMA EP PAMPHLET AND ADVISE COMMISSION OF IMPACT OF CHANGES	COMPLETE	FEMA REVIEW COMPLETE NRC ADVISE COMMISSION	12/82
	C. FEMA PAMPHLET AND COUNTY BROCHURE DISTRIBUTION TO POPULACE IN EPZ	COMPLETE	PENDING	12/82
	D. PUBLIC INFORMATION BROCHURE DISTRIBUTION TO TRANSIENT LOCATIONS	EST. 12/82	PENDING	12/82
	E. LICENSEE TO CONDUCT EP BRIEFINGS TO MAJOR EMPLOYERS AND OPERATORS OF TRANSIENT LOCATIONS. BRIEFINGS TO BEGIN PRIOR TO RESTART	SCHEDULED 12/82	PENDING	12/82
	F. STAFF CERTIFY SATISFACTORY COMPLETION OF SIREN SYSTEM TESTING	COMPLETE	FEMA REVIEW COMPLETE STAFF REVIEW	12/82 12/82
	H. CERTIFY TO COMMISSION THAT EPZ SCHOOL PLANS ARE COMPLETE	N/A	FEMA REVIEW COMPLETE ADVISE COMMISSION	12/82 12/82
<u>E. REOPENED PROCEEDING ON CHEATING-JULY 27, 1982</u>				
V.	PARAGRAPH 2421			
	2) LICENSEE ESTABLISH CRITERIA FOR QUALIFICATIONS OF TRAINING INSTRUCTORS	EST. 12/82	PENDING	1/83

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>LICENSEE STATUS</u>	<u>INSPECTION/REVIEW STATUS</u>	<u>ESTIMATED COMPLETION/ REMARKS</u>
3)	LICENSEE IMPLEMENT INTERNAL AUDITING PROCEDURE ON TRAINING AND TESTING PROGRAM TO BE COMPLETED BY MANAGER OF TRAINING AND SUPERVISOR OF TRAINING	EST. 12/82	PENDING	1/83
4)	LICENSEE IMPLEMENT A PROCEDURE FOR SAMPLING AND REVIEW OF EXAM ANSWERS TO DETECT CHEATING. REVIEW PROCESS TO BE APPROVED BY NRC	EST. 12/82	PENDING	1/83
5)	UNTIL FURTHER ORDER, G. MILLER'S PARTICIPATION IN STARTUP/TESTING/ OPERATION OF TMI-1 TO BE SUPERVISED BY GPUNIC OFFICIAL	COMPLETE	COMPLETE	

### III. APPEAL BOARD IMPOSED REQUIREMENTS

#### A. ALAB 697/698 APPEAL BOARD DECISIONS ON EMERGENCY PLANNING

1.	COMMONWEALTH AGRICULTURAL BROCHURES TO BE DISTRIBUTED TO ALL FARMERS IN EPZ PRIOR TO RESTART (ALAB 697 AT 34, 49)	N/A	FEMA VERIFY TO STAFF	1/83
2.	NRC EMERGENCY RESPONSE PLANS MODIFIED AND DISTRIBUTED IN FINAL FORM TO COMMONWEALTH AND LICENSEE (ALAB 698 AT 48, 58)	N/A	PENDING	1/83