

*T. A. Mackey*

*cc: NRC 9/25/79  
File Std Tech Specs*

METROPOLITAN EDISON COMPANY Subsidiary of General Public Utilities Corporation

Subject TMI-2 Tech Spec Surveillance Index

Location TMI Nuclear Station  
Middletown, Pa. 17057  
Date March 1, 1978

To Distribution

Attached is an index of Tech Spec Surveillance requirements listing the procedure being utilized to satisfy that requirement. Instrument Surveillance requirements and the associated procedures are tabulated following the basic listing.

ISI testing of pumps and valves is integrated with Tech Spec Surveillance Procedures. Containment isolation valve closure times required by 4.6.3.1.3 are measured in the surveillance procedures indicated on the attached table.

The following Tech Spec Surveillance requirements were exempted by a license condition due to the inability of charcoal in HVAC Filter Trains to meet the Lab analysis for methyl iodide removal capability and hardness required by Tech Specs. The exemption is good until our first refueling outage at which time replacement of charcoal absorbers in H<sub>2</sub> purge cleanup, F.H. Building and Control Room Air Cleanup Systems must be replaced.

- 4.6.4.3.b.2 and 4.6.4.3.c\*
- 4.7.7.1.c.2 and 4.7.7.1.d
- 4.9.12.b.2 and 4.9.12.c

*Note no requirements  
for Aux. Building Exhaust Sys.*

\*Erroneously exempted in license as 4.6.4.3.d - to be corrected by NRC amendment.

Secondary Water Chemistry Surveillance Program, per 4.7.1.6, must be established during the startup and initial power operation of the unit as outlined in Tech Spec Bases page 13 3/4 7-3. Sample locations, parameters, limits and frequencies are to be provided to the NRC by license amendment within approximately six months following issuance of the full power license.

The procedure(s) required by surveillance requirement 4.8.1.1.2.c and d must have been satisfactorily completed prior to start-up after our first refueling. R. Bensei will ensure the required procedures are issued well in advance of that time.

*T. A. Mackey Jr.*  
T. A. Mackey Jr.  
Engineer III-Nuclear

AM/jg

- |              |                 |                                 |
|--------------|-----------------|---------------------------------|
| W. W. Cotter | G. P. Miller    | R. W. Zechman                   |
| R. W. Dubiel | W. C. Ream      | Unit 1 PORC                     |
| J. R. Floyd  | J. L. Seelinger | Unit 2 PORC                     |
| J. Logan     | D. M. Shovlin   | Each Unit 2 Engr.               |
|              |                 | Each Unit 2 Shift Supvr/Foreman |

8211190177 780301  
PDR ADOCK 05000320  
PDR

F. The following must be completed prior to startup following the first regularly scheduled refueling outage:

Sec Am #3

1. Provide redundant automatic safety grade Makeup Tank isolation valves (MU-V-12) actuated by an Engineered Safety Features signal.
2. Replace the charcoal in the filters in the following systems so that the requirements of the indicated Appendix A Technical Specifications will be met.

<u>System</u>	<u>Technical Specification</u>
Hydrogen Purge Air Cleanup	4.6.4.3.b.2 and 4.6.4.3.d
Control Room Emergency Air Cleanup	4.7.7.1.c.2 and 4.7.7.1.d
Fuel Handling Building Air Cleanup	4.9.12.b.2 and 4.9.12.c

Pending such charcoal replacement, Metropolitan Edison Company shall be exempted from compliance with the above Technical Specifications.

G. The following must be completed by the time indicated to improve the capability of the fire protection system:

By March 1, 1978

1. Verify by Underwriters Laboratory certificate or equivalent, the fire rating of fire doors, frames, and hardware as commensurate with the barrier in which they are located.

By Initial Entry into Mode 2

2. Relocate existing fire detectors in the control room.
3. In the control room kitchen area, provide a grease filter over the range and an additional Class B portable extinguisher, and remove a wooden cabinet.
4. Prohibit smoking in the following fire areas:

- Fuel Handling Building (FA-007)
- Auxiliary Building (FA-009)
- River Water Pump House (FA-020)
- Control Building (FA-033)
- Cable Room (FA-045)
- Service Building and Control Building Area (FA-047)
- H/V DUCT AND CABLE TRAY AREA (FA-041)
- Diesel Oil Storage Area (FA-032)
- Fuel Handling Building Oil Drum Storage Area (FA-008)

CC: NRC 9/25/79

MSA PART NO. 85851

ACTIVATED IMPREGNATED CARBON

FOR

JERSEY CENTRAL POWER & LIGHT

PURCHASE ORDER NO. TMT-002-2

SPECIFICATION NO. 2555-63

DIVISION 15

SECTION 15 L

RADWASTE GAS FILTER

SECTION 5.0 TESTING

PARAGRAPH 5.1.2 CARBON FILTER

	Required	Actual
1. Elemental Iodine @ 25°C + 90% RH MSA-JCPL-6E	99.95% Min.	<u>99.97%</u>
2. Methyl Iodide @ 25°C + 90% RH MSA-JCPL-6E	85% Min.	<u>95.23%</u>
3. Ignition Temperature	340°C Min.	<u>431.8°C</u>
4. Bulk Density ASTM D2854	Report Value	<u>27.4<sup>31</sup>/ft<sup>3</sup></u>
5. Mesh per USNRC Regulatory Guide 1.52, July 1976		
# 6 ASTM E-11 Sieve	0%	<u>0%</u>
# 8 ASTM E-11 Sieve	5%	<u>0.6%</u>
#12 ASTM E-11 Sieve	40-60%	<u>41.0%</u>
#16 ASTM E-11 Sieve	40-60%	<u>53.7%</u>
#18 ASTM E-11 Sieve	5%	<u>2.9%</u>
Pan	1%	<u>1.0%</u>
6. Hardness MIL-C-17605	90 Min.	<u>96.4</u>
7. Activity for CCl <sub>4</sub> MIL-C-17605	50% Min.	<u>99.28%</u>
8. Retentivity for CCl <sub>4</sub> MIL-C-17605	30% Min.	<u>45.71%</u>
9. Moisture Content MIL-C-17605	5.0% Max.	<u>3.34</u>
10. Penetration Testing	See Radwaste Filter In-Place Shop Test Results 12-23-75.	

Carbon Lot No. C-219

Date of Report 1-25-78

Prepared By David J. Madlock

REVIEWED BY Q.C.  
ACCEPT/REJECT ITZ

J. W. Ricketts NAME  
MAR 25 1978 DATE

CCI NRC 9/25/79

Detector Identification Number ANALYTICAL INSTRUMENT DEVELOPMENT INC

Standing Current 3200 RU Ambient Air Temperature, °F ~ 75

Oven Temperature 75°C Carbon Bed Temperature, °F ~ 75

Detector N<sub>2</sub> Pressure 17 PSI Carbon Bed Air Flow, CFM 20,000

Rotometer Readings Sample Interval 60 SEC.

Dilution Air 50 000 cc/m Attenuator Setting A-16

Sample Air 100 cc/m Range Setting R 10<sup>2</sup>

F-11 or F-112 F-11

Peak Height During Test:

Sample No.	Time (sec.)	Recorder Units Upstream	Recorder Units Downstream
<u>BACKGROUND</u>		<u>2</u>	<u>9</u>
<u>1</u>	<u>60</u>	<u>20 - 2 = 18</u>	
<u>2</u>	<u>120</u>	<u>20 - 2 = 18</u>	
<u>3</u>	<u>180</u>	<u>20 - 2 = 18</u>	
<u>4</u>	<u>240</u>		<u>12 - 9 = 3</u>
<u>5</u>	<u>300</u>		<u>12 - 9 = 3</u>
<u>6</u>	<u>360</u>		<u>12 - 9 = 3</u>

TYPICAL OF ALL LEAK TEST DATA

Efficiency Data:

Sample Number	Efficiency
<u>1</u>	<u>99.97</u>
<u>2</u>	<u>99.97</u>
<u>3</u>	<u>99.97</u>
<u>OFFICIAL FIELD COPY</u>	

Efficiency at zero time from curve = 99.97 AM-F-14B

Duplicate Page 0

Date of Test FEB. 16, 1978 Train F H E "B"

Signature: Rob. F. ... Customer T M T

CC: NRC 9/25/79

179.6

4-17-75

CARBON CELLS DATA SHEET

JERSEY CENTRAL POWER + LIGHT

Customer 3 MILE ISLAND

MSA Job No. B 629011

Type of Carbon 85851

Customer Order No. JMT-002-2

Spec. No. DP-1082

THE LOWEST VALUE OR ALL OBSERVED EFFICIENCIES.

Date of Fill	Carbon Lot No.	Cell No.	Cell Weight Empty (lbs.)	Carbon Weight (lbs.)	Total Weight (lbs.)	Pressure Drop (ΔP)	Freon Test (%)	DATE TESTED
4-17-75	156	2519 14A	48	60	108	0.80	99.96	4-17-75
"	"	2520 31B	"	60	108	0.80	"	"
4-15-75	149	2521 10A	"	64	112	0.75	99.99	4-15-75
"	"	2522 10A	"	59	107	0.80	99.99	4-16-75
4-16-75	"	2523 10A	"	59	107	0.80	99.99	"
"	159	2524 10B	"	61	109	0.80	99.99	"
"	"	2525 10A	"	61	109	0.80	99.99	"
"	"	2526 14A	"	61	109	0.80	99.99	"
"	"	2527 14A	"	63	111	0.80	99.99	"
"	"	2528 14A	"	62	110	0.85	99.99	"
"	"	2529 14A	"	62	110	0.85	99.99	"
"	"	2530 31B	"	62	110	0.85	99.99	"
"	"	2531 14A	"	64	112	0.80	99.99	"
4-17-75	156	2532 31B	"	60	108	0.80	99.96	4-17-75

459 40" DRAWER TYPE  
SERIAL NOS. 2519-2977.

\* AHF SYSTEM NO. INDICATED



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