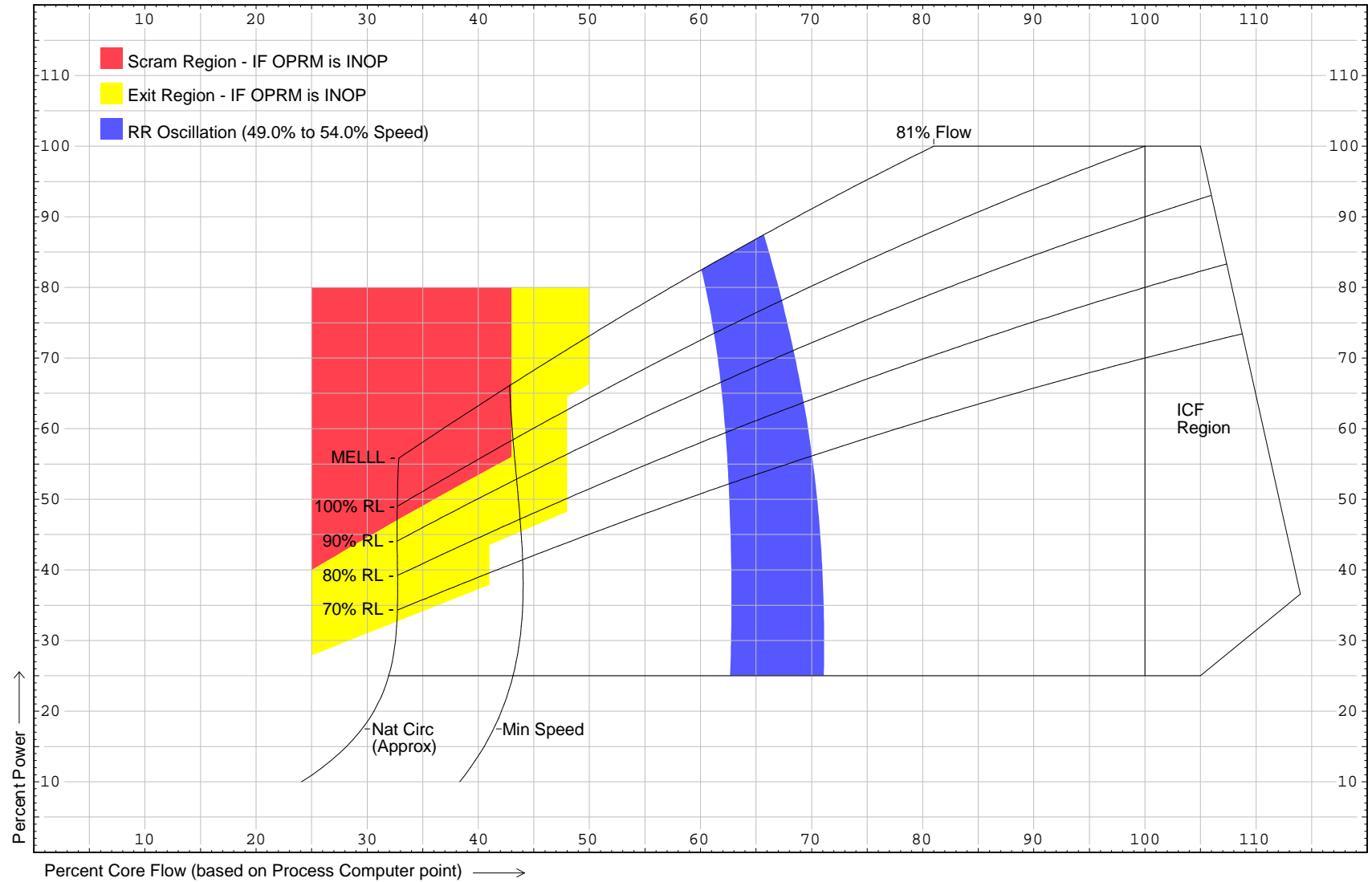


Fermi 2 Power-Flow Map



Approved by: Robert A. Gailliez /s/ 3-28-2006
 Supervisor, Reactor Engineering / Date

OFFGAS LOG RADIATION MONITORS CONVERSION FACTORS FOR TECHNICAL SPECIFICATIONS

Date _____
Time _____

1. Obtain the following information from Attachment 1:

- a. Radioactivity Rate (Step 5): _____ mCi/sec
- b. Offgas Flow Rate (Step 1c): _____ cfm
- c. Rad Monitor Readings (Step 1b)
 - D11-K601A _____ mr/hr
 - D11-K601B _____ mr/hr

2. Perform the following conversion factor calculations:

D11-K601A Conversion Factor

<u>mCi/sec</u>		<u>Radioactivity</u>		<u>Offgas</u>		<u>D11-K601A</u>
<u>mr/hr x cfm</u>	=	<u>Rate (mCi/sec)</u>	/	<u>Flow Rate</u>	x	<u>Reading</u>
				<u>(cfm)</u>		<u>(mr/hr)</u>
=			/	(x)

D11-K601B Conversion Factor

<u>mCi/sec</u>		<u>Radioactivity</u>		<u>Offgas</u>		<u>D11-K601B</u>
<u>mr/hr x cfm</u>	=	<u>Rate (mCi/sec)</u>	/	<u>Flow Rate</u>	x	<u>Reading</u>
				<u>(cfm)</u>		<u>(mr/hr)</u>
=			/	(x)

Detach bottom portion and post on Control Room Panel H11-P601 next to Offgas Log Radiation Monitors Recorder D11-R601.

CONVERSION FACTOR

<u>Rad Monitor</u>	<u>mCi/sec</u> <u>mr/hr x cfm</u>	<u>Rad Monitor</u>	<u>mCi/sec</u> <u>mr/hr x cfm</u>
D11-K601A	3.15 X 10 ⁻³	D11-K601B	3.01 X 10 ⁻³

THESE CONVERSION FACTORS ARE TO BE USED TO OBTAIN A mCi/sec RELEASE RATE FROM OFFGAS LOG RADIATION MONITORS.

TO USE CONVERSION FACTORS, MULTIPLY FACTOR BY CURRENT OFFGAS LOG RADIATION MONITOR READING (mr/hr) AND CURRENT OFFGAS FLOW RATE (cfm):

$$\text{mCi/sec} = \text{FACTOR} \times \text{MONITOR READING} \times \text{OFFGAS FLOW}^*$$

* Flow as read from N62-R808, O/G Outlet Flow Rec pen labeled Charcoal Unit 1-6.

Performed By _____ Date _____

Approved By _____ Date _____
Chemist/designee

Noted By _____ Date _____
SM

3.8 ELECTRICAL POWER SYSTEMS

3.8.4 DC Sources - Operating

LC0 3.8.4 The Division I and Division II DC electrical power subsystems shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3.

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One battery charger inoperable.	A.1 Restore battery charger to OPERABLE status.	4 hours
B. One DC electrical power subsystem inoperable for reasons other than Condition A.	B.1 Restore DC electrical power subsystem to OPERABLE status.	2 hours
C. Required Action and Associated Completion Time not met.	C.1 Be in MODE 3.	12 hours
	<u>AND</u> C.2 Be in MODE 4.	36 hours

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.8.4.1 Verify battery terminal voltage is ≥ 125.7 V on float charge.	7 days
SR 3.8.4.2 Verify no visible corrosion at battery terminals and connectors. <u>OR</u> Verify each battery cell-to-cell and terminal connection resistance is $\leq 1.5E-4$ ohm.	92 days
SR 3.8.4.3 Verify battery cells, cell plates, and racks show no visual indication of physical damage or abnormal deterioration that could degrade battery performance.	18 months
SR 3.8.4.4 Remove visible corrosion and verify battery cell to cell and terminal connections are coated with anti-corrosion material.	18 months
SR 3.8.4.5 Verify each battery cell-to-cell and terminal connection resistance is $\leq 1.5E-4$ ohm.	18 months
SR 3.8.4.6 Verify each required battery charger supplies ≥ 100 amps at ≥ 124.7 V for ≥ 4 hours.	18 months

(continued)

SURVEILLANCE REQUIREMENTS (continued)

SURVEILLANCE	FREQUENCY
<p>SR 3.8.4.7 -----NOTE----- The performance discharge test in SR 3.8.4.8 may be performed in lieu of the service test in SR 3.8.4.7 once per 60 months. ----- Verify battery capacity is adequate to supply, and maintain in OPERABLE status, the actual or simulated emergency loads for the design duty cycle when subjected to a battery service test.</p>	<p>18 months</p>
<p>SR 3.8.4.8 -----NOTE----- This Surveillance shall not be performed in MODE 1, 2, or 3. However, credit may be taken for unplanned events that satisfy this SR. ----- Verify battery capacity is $\geq 80\%$ of the manufacturer's rating when subjected to a performance discharge test.</p>	<p>60 months <u>AND</u> 18 months when battery shows degradation or has reached 85% of expected life</p>