SECONDARY CONTAINMENT DIFFERENTIAL PRESSURE CORRECTION TABLES

NORTH, SOUTH, OR WEST DIFFERENTIAL PRESSURE TRANSMITTER
(T41-N342A, B; N343A, B; or N345A, B) CONTROLLING

TABLE 1

Met Tower Temp °F	RB-5 Temp °F										
	105°	100°	95°	90°	85°	80°	75°	70°	65°	60°	55°
100°	.005	0.000	-.006	-.011	-.017	-.023	-.029	-.035	-.041	-.047	-.054
95°	.011	.006	0.000	-.006	-.011	-.017	-.023	-.029	-.035	-.042	-.048
90°	.017	.011	.006	0.000	-.006	-.012	-.017	-.024	-.030	-.036	-.042
85°	.022	.017	.011	.006	0.000	-.006	-.012	-.018	-.024	-.030	-.037
80°	.028	.023	.017	.012	.006	0.000	-.006	-.012	-.018	-.024	-.031
75°	.034	.029	.023	.017	.012	.006	0.000	-.006	-.012	-.018	-.025
70°	.040	.035	.029	.024	.018	.012	.006	0.000	-.006	-.012	-.019
65°	.046	.041	.035	.030	.024	.018	.012	.006	0.000	-.006	-.013
60°	.053	.047	.042	.036	.030	.024	.018	.012	.006	0.000	-.006
55°	.059	.054	.048	.042	.037	.031	.025	.019	.013	.006	0.000
50°	.065	.060	.055	.049	.043	.037	.031	.025	.019	.013	.007
45°	.072	.067	.061	.056	.050	.044	.038	.032	.026	.020	.013
40°	.079	.073	.068	.062	.057	.051	.045	.039	.033	.026	.020
35°	.086	.080	.075	.069	.064	.058	.052	.046	.040	.033	.027
30°	.093	.087	.082	.076	.071	.065	.059	.053	.047	.040	.034
25°	.100	.095	.089	.084	.078	.072	.066	.060	.054	.048	.041
20°	.108	.102	.097	.091	.085	.079	.073	.067	.061	.055	.049
15°	.115	.110	.104	.098	.093	.087	.081	.075	.069	.062	.056
10°	.123	.117	.112	.106	.100	.095	.089	.083	.076	.070	.064
5°	.131	.125	.120	.114	.108	.102	.097	.090	.084	.078	.072
0°	.139	.133	.128	.122	.116	.110	.105	.098	.092	.086	.080
-5°	.147	.141	.136	.130	.124	.119	.113	.107	.101	.094	.088
-10°	.155	.150	.144	.139	.133	.127	.121	.115	.109	.103	.096

	TAPS	dP TRANSMITTER
Low Tap El 691'-0"	North Wall : T41-401A, B	T41-N342A, B
	South Wall : T41-402A, B	T41-N343A, B
	West Wall : T41-404A, B	T41-N345A, B

Example:

Outside Temp (Met Tower) = 65°F
Inside Temp (RB-5) = 85°F

P (corr. factor) = .024" wc

SECONDARY CONTAINMENT DIFFERENTIAL PRESSURE CORRECTION TABLES

EAST DIFFERENTIAL PRESSURE TRANSMITTER (T41-N344A, B) CONTROLLING

TABLE 2

Met Tower Temp °F	RB-5 Temp °F										
	105°	100°	95°	90°	85°	80°	75°	70°	65°	60°	55°
100°	.002	0.000	-.002	-.003	-.005	-.007	-.009	-.011	-.013	-.015	-.017
95°	.003	.002	0.000	-.002	-.004	-.005	-.007	-.009	-.011	-.013	-.015
90°	.005	.003	.002	0.000	-.002	-.004	-.005	-.007	-.009	-.011	-.013
85°	.007	.005	.004	.002	0.000	-.002	-.004	-.006	-.007	-.009	-.011
80°	.009	.007	.005	.004	.002	0.000	-.002	-.004	-.006	-.008	-.010
75°	.011	.009	.007	.005	.004	.002	0.000	-.002	-.004	-.006	-.008
70°	.012	.011	.009	.007	.006	.004	.002	0.000	-.002	-.004	-.006
65°	.014	.013	.011	.009	.007	.006	.004	.002	0.000	-.002	-.004
60°	.016	.015	.013	.011	.009	.008	.006	.004	.002	0.000	-.002
55°	.018	.017	.015	.013	.011	.010	.008	.006	.004	.002	0.000
50°	.020	.019	.017	.015	.013	.012	.010	.008	.006	.004	.002
45°	.022	.021	.019	.017	.015	.014	.012	.010	.008	.006	.004
40°	.024	.023	.021	.019	.018	.016	.014	.012	.010	.008	.006
35°	.027	.025	.023	.021	.020	.018	.016	.014	.012	.010	.008
30°	.029	.027	.025	.024	.022	.020	.018	.016	.014	.012	.011
25°	.031	.029	.028	.026	.024	.022	.020	.019	.017	.015	.013
20°	.033	.032	.030	.028	.026	.025	.023	.021	.019	.017	.015
15°	.036	.034	.032	.030	.029	.027	.025	.023	.021	.019	.017
10°	.038	.036	.035	.033	.031	.029	.027	.026	.024	.022	.020
5°	.040	.039	.037	.035	.033	.032	.030	.028	.026	.024	.022
0°	.043	.041	.039	.038	.036	.034	.032	.030	.029	.027	.025
-5°	.045	.044	.042	.040	.038	.037	.035	.033	.031	.029	.027
-10°	.048	.046	.045	.043	.041	.039	.037	.030	.034	.032	.030

TAPS

Tap El 722'-0" East Wall : T41-403A, B

dP TRANSMITTER

T41-N344A, B

Example:

Outside Temp (Met Tower) = 55°F
Inside Temp (RB-5) = 85°F

P(corr. factor)=.011" wc

END

SNM/COMPONENT TRANSFER FORM

Transaction Number: **SNM-RFL-13-01FULL**
RF13 Full Shuffle

03/12/2009 11:41:14

Step	Item	From Loc	From Coord	From Orient	To Loc	To Coord	To Orient	Initials	Verifier	Date
455	JLX943	RX	37-10	SE/er	RX	41-10	SE/er			
456	JYB771	RX	33-28	SW/el	RX	37-10	SE/er			
457	JLG931	RX	43-06	NE/el	SFP	4G-34	NE/el			
458	JYH581	SFP	Z-33	SW/el	RX	33-28	SW/el			
459	JLN215	RX	39-16	NW/er	RX	43-06	NE/el			
460	JLX903	RX	43-16	NW/er	RX	39-16	NW/er			
461	JYB855	RX	33-12	SW/el	RX	43-16	NW/hl			
462	JLG819	RX	55-30	NE/el	SFP	4G-29	NE/el			
463	JYH621	SFP	Z-14	SW/el	RX	33-12	SW/el			
464	JLX879	RX	43-08	NW/er	RX	55-30	NE/el			
465	JYB875	RX	39-10	NE/el	RX	43-08	NW/er			
466	JLG959	RX	33-02	SE/er	SFP	4G-24	SE/er			
467	JYH569	SFP	S-26	NE/el	RX	39-10	NE/el			
468	JLN203	RX	31-16	NW/er	RX	33-02	SE/hl			
469	JLX947	RX	39-12	NW/er	RX	31-16	NW/er			
470	JYB839	RX	33-16	SW/el	RX	39-12	NW/hl			

Completion
Review by: _____ / _____
Special Nuclear Materials Custodian /Date

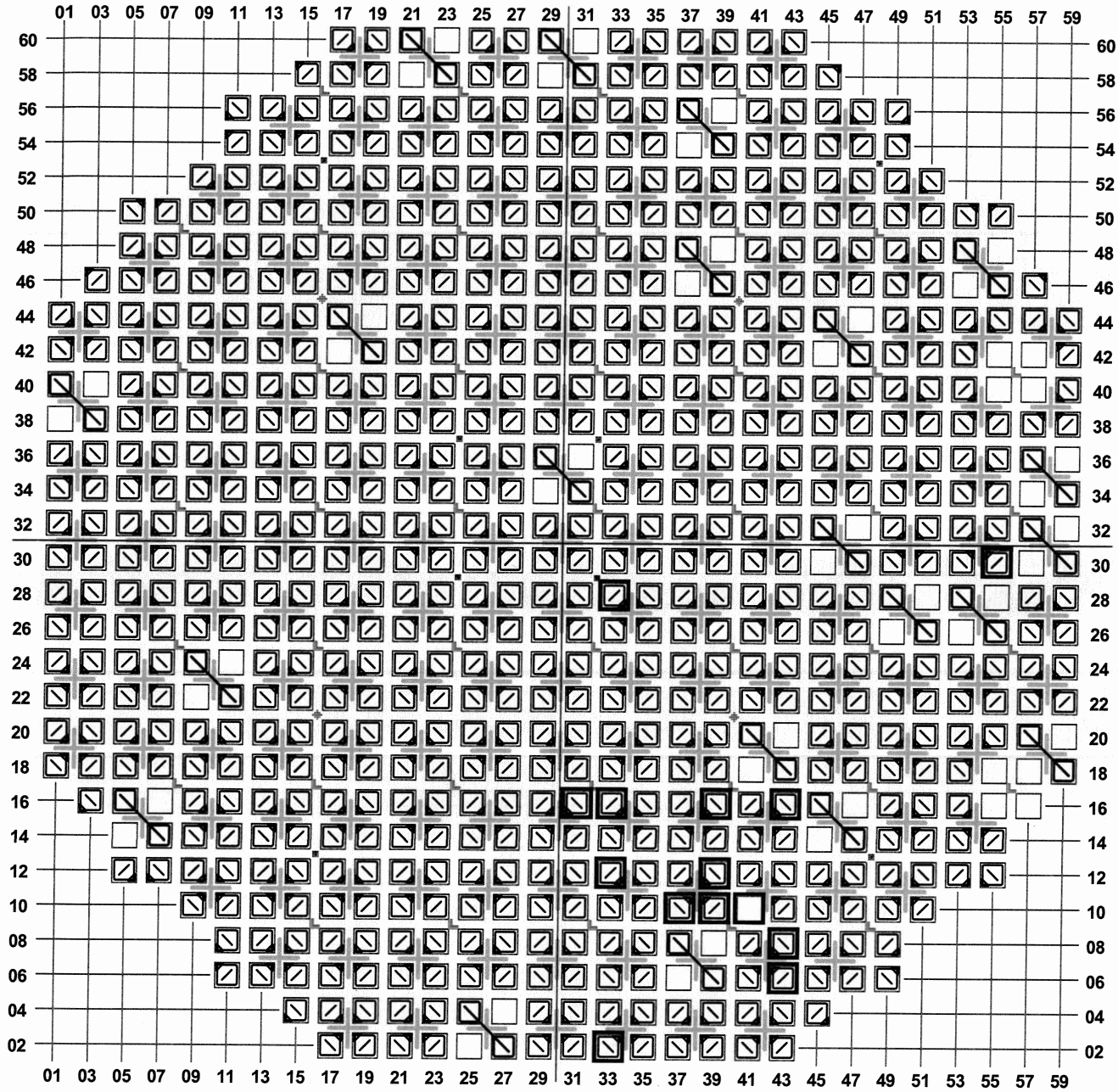
TRANSFER FORM - CORE MAP

Transaction Number: **SNM-RFL-13-01FULL**
RF13 Full Shuffle

03/12/2009 11:41:14

Start-of-Page Configuration: Step **455**

Highlighted Locations for Steps: **455 - 470**



SOURCE RANGE MONITOR SIGNAL TO NOISE RATIO CALCULATION SHEET

The following information is current per the Tech Spec: (CRS) Initial/ID _____

Tech Spec Articles : SR 3.3.1.2.5, SR 3.3.1.2.6

Situation Requiring Surveillance Performance : SRM Count rate is < 3.0 cps

LCO No.: _____

Tech Spec Frequency : Once per 7 days in Mode 5
: Once per 31 days in Mode 2,3,4

Admin Frequency : N/A

Action : Determine Signal-to-Noise Ratio for Source Range Monitors per the following, and verify ratio >20:1.

1.0 Determination of Signal-to-Noise Ratio for Source Range Monitors

1.1 Record the following data:

1.1.1 SRM D

1.1.2 Frequency Counter Used

Serial Number SN1234

Calibration due date 12/31/2010

1.2 Bypass the SRM Channel.

1.3 Have an Instrument Technician connect a Frequency Counter to the scaler output J8 for the desired SRM.

NOTE: If the count rate is low, it may be helpful to read period on the Frequency Counter for greater accuracy.

1.4 With the detector fully inserted, record the Frequency 2 CPS
(CPS Inserted)

SOURCE RANGE MONITOR SIGNAL TO NOISE RATIO CALCULATION SHEET

CAUTION

Withdrawing a detector with the undervessel platform inproperly aligned will result in damage to the detector.

1.5 Withdraw the detector.

NOTE: If the count rate is low, it may be helpful to read period on the Frequency Counter for greater accuracy.

1.6 With the detector fully withdrawn, record the Frequency 0.07 CPS
(CPS Withdrawn)

1.7 Remove the Frequency Counter from the SRM.

1.8 Insert the Detector.

1.9 Un-bypass the SRM Channel.

1.10 Calculate the signal to noise ratio (SNR) as follows:

1.10.1 SNR = CPS inserted - CPS withdrawn / CPS withdrawn = 27.6

EF
Performer Initials

AE
Verifier Initials

1.11 Verify that the SNR obtained is ≥ 20.

2.0 Surveillance Complete

0330 18/29/2010
Time/Date

Printed Names	Initials	Signatures (of test personnel)
Enrico Fermi	EF	Enrico Fermi
A. Einstein	AE	A Einstein

SOURCE RANGE MONITOR SIGNAL TO NOISE RATIO CALCULATION SHEET

The following information is current per the Tech Spec: (CRS) Initial/ID _____

Tech Spec Articles : SR 3.3.1.2.5, SR 3.3.1.2.6

Situation Requiring Surveillance Performance : SRM Count rate is < 3.0 cps

LCO No.: _____

Tech Spec Frequency : Once per 7 days in Mode 5
: Once per 31 days in Mode 2,3,4

Admin Frequency : N/A

Action : Determine Signal-to-Noise Ratio for Source Range Monitors per the following, and verify ratio >20:1.

1.0 Determination of Signal-to-Noise Ratio for Source Range Monitors

1.1 Record the following data:

1.1.1 SRM B

1.1.2 Frequency Counter Used

Serial Number SN1234

Calibration due date 12/31/2010

1.2 Bypass the SRM Channel.

1.3 Have an Instrument Technician connect a Frequency Counter to the scaler output J8 for the desired SRM.

NOTE: If the count rate is low, it may be helpful to read period on the Frequency Counter for greater accuracy.

1.4 With the detector fully inserted, record the Frequency 2 CPS
(CPS Inserted)

SOURCE RANGE MONITOR SIGNAL TO NOISE RATIO CALCULATION SHEET

CAUTION

Withdrawing a detector with the undervessel platform inproperly aligned will result in damage to the detector.

1.5 Withdraw the detector.

NOTE: If the count rate is low, it may be helpful to read period on the Frequency Counter for greater accuracy.

1.6 With the detector fully withdrawn, record the Frequency 0.1 CPS
(CPS Withdrawn)

1.7 Remove the Frequency Counter from the SRM.

1.8 Insert the Detector.

1.9 Un-bypass the SRM Channel.

1.10 Calculate the signal to noise ratio (SNR) as follows:

1.10.1 SNR = CPS inserted - CPS withdrawn / CPS withdrawn = 19

EF
Performer Initials

AE
Verifier Initials

1.11 Verify that the SNR obtained is ≥ 20.

2.0 Surveillance Complete

0350 / 8/29/2010
Time/Date

Printed Names	Initials	Signatures (of test personnel)
Enrico Fermi	EF	Enrico Fermi
A. Einstein	AE	A. Einstein