



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: RECORD OF CHANGES AND REVISIONS

FORM NO. 1000.06A

MAGNITUDE OF RELEASE PROCEDURE

REV. # 8 PC #

MAGNITUDE OF RELEASE - GERMS

1904.04 REV. 0

UN - Controlled Copy # 103

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2	0		20	0										
3	0	2	21	0										
4	0		22	0										
5	0		23	0										
6	0		24	0										
7	0		25	0										
8	0													
9	0													
10	0	2												
11	0													
12	0	2												
13	0	1												
14	0													
15	0													
16	0													
17	0													
18	0													

8204260375

APPROVED BY:

8204-3

J. P. Hamilton
(General Manager)

APPROVAL DATE

4/1/82

REQUIRED EFFECTIVE DATE:



PLANT MANUAL SECTION:
MAGNITUDE OF RELEASE
PROCEDURE

PROCEDURE/WORK PLAN TITLE:
MAGNITUDE OF RELEASE

NO:
1904.04

ARKANSAS NUCLEAR ONE

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7.0 DETERMINATION OF EXISTING METEOROLOGICAL CONDITIONS AND THE GASEOUS RELEASE RATE

- 7.1 Record the current date and time in Lines 1 and 2 respectively of Form 1904.04A. If onsite meteorological data is unavailable, enter "OOS" (Out of Service) in the appropriate space.
- 7.2 Record the $\sigma\theta$ from recorder AAR 9300 on Form 1904.04A, Line 3. If $\sigma\theta$ is not available, record the Δt from recorder AAR 9300 and note appropriately.
- 7.3 Record the prevailing wind direction (40' elev., if available) from recorder WDR 9300 on Form 1904.04A, Line 4.
- 7.4 Record the wind speed (40' elev., if available) from recorder WSR 9300 on Form 1904.04A, Line 5.
- 7.5 Record the radioactive release data as indicated on the Eberline CT2 for each of the following release points that are in service on Form 1904.04A:
 - 7.5.1 At the Eberline Control Terminal (CT), insert the key into the "keyboard" switch and activate the control terminal.
 - 7.5.2 Set the History Format select knob to "Release Rate."
 - 7.5.3 For each of the channels to be interrogated, depress the [Hist. Min] pushbutton then enter the 2-digit monitor ID number and then the two digit channel ID. Then depress the [ENTER] pushbutton.

NOTE: A printout of the 23 previous 10-minute averages plus the current value will appear.

- A. Containment Purge [RX-9820] (Monitor 01; Channels 05, 07 or 09; in $\mu\text{Ci}/\text{min}$), Line 6.
- B. Radwaste Area [RX-9825] (Monitor 02; Channels 05, 07 or 09; in $\mu\text{Ci}/\text{min}$), Line 7.
- C. Fuel Handling Area [RX-9830] (Monitor 03; Channels 05, 07 or 09; in $\mu\text{Ci}/\text{min}$), Line 8.
- D. Penetration Room/ H_2 Purge [RX-9835] (Monitor 04; Channel 05, 07 or 09; in $\mu\text{Ci}/\text{min}$), Line 9.
- E. PASS Building (covered by 2904.04, "Magnitude of Release - Germs").



PLANT MANUAL SECTION:
MAGNITUDE OF RELEASE
PROCEDURE

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ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE: EXISTING CONDITIONS SUMMARY

FORM NO. 1904.04A

REV. # 0 PC # 2

LINE	ITEM	READING			
		1	2	3	4
1	DATE				
2	TIME (HHMM)				
3	DB (degrees) [or () Δt ($^{\circ}C$)] (AAR-9300)				
4	WIND DIRECTION (WDR-9300) FROM, IN DEGREES [~ 15 MIN. AVG.]				
5	WIND SPEED (WSR-9300) MPH [~ 15 MIN. AVG.]				
6	CONTAINMENT PURGE [MONITOR 01; CHANNEL ()05, ()07, ()09] $\mu Ci/Min$				
7	RADWASTE AREA [MONITOR 02; CHANNEL ()05, ()07, ()09] $\mu Ci/Min$				
8	FUEL HANDLING AREA [MONITOR 03; CHANNEL ()05, ()07, or ()09] $\mu Ci/Min$				
9	PENETRATION ROOM/HYDROGEN PURGE [MONITOR 04; Channel ()05, ()07, or ()09] $\mu Ci/Min$				
10	"A" STEAM HEADER, (RI-2682) mR/hr				
11	NO. SAFETIES/ATMOSPHERIC DUMPS OPEN				
12	LBS/HR STEAM EXHAUSTED				
13	"B" STEAM HEADER, (RI-2681) mR/hr				
14	NO. SAFETIES/ATMOSPHERIC DUMPS OPEN				
15	LBS/HOUR STEAM EXHAUSTED				
16	UNMONITORED RELEASE PATH(S), Ci/Sec				
17	INITIALS				

REVIEWED BY _____



PLANT MANUAL SECTION:
MAGNITUDE OF RELEASE
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PROCEDURE/WORK PLAN TITLE:
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NO:
1904.04

ARKANSAS NUCLEAR ONE

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ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE: Gaseous Release Rate Worksheet

FORM NO. 1904.04C

REV. # 0 PC # 2

LINE NO.	MONITOR NO.	DESIGNATION	CHANNEL (CIRCLE)	RELEASE RATE (μCi/Min)	RELEASE RATE+ (Ci/Sec)
1	01	CONT. PRG.	05 07 09		
2	02	RADWASTE AREA	05 07 09		
3	03	FUEL HD. AREA	05 07 09		
4	04	PEN RM/H ₂ PURGE	05 07 09		
5		"A" STM. HDR.*			
6		"B" STM. HDR.*			
7		UNMONITOR. PATH			
8		TOTALS			

*1. Ci/Sec = Net mR/hr * No. Safeties/Atm. Dumps Open * 0.0152 Ci/Sec
mR/hr

+2. μCi/Min * 1.67E - 8 = Ci/Sec

or

Ci/Sec = Net mR/hr * Lbs./hr Steam Exhausted * 1.9E-8

Performed by: _____ / _____
Initial Time

Reviewed by: _____

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ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: RECORD OF CHANGES AND REVISIONS

FORM NO. 1000.06A

MAGNITUDE OF RELEASE PROCEDURE

REV. # 8 PC #

MAGNITUDE OF RELEASE - COMPUTER METHOD
2904.01 REV. 0

UN - Controlled Copy # 103

Safety

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1	0		19	0										
2	0		20	0										
3	0		21	0										
4	0		22	0										
5	0	3	23	0										
6	0	1	24	0										
7	0		25	0										
8	0		26	0										
9	0		27	0										
10	0	3	28	0										
11	0		29	0										
12	0	2	30	0										
13	0		31	0										
14	0		32	0										
15	0		33	0										
16	0		34	0										
17	0		35	0										
18	0		36	0										

APPROVED BY:

J. P. Anderson
(General Manager)

APPROVAL DATE

4/1/82

REQUIRED EFFECTIVE DATE:



PLANT MANUAL SECTION:
MAGNITUDE OF
RELEASE PROC.

PROCEDURE/WORK PLAN TITLE:

MAGNITUDE OF RELEASE - COMPUTER METHOD

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2904.01

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REVISION 0 DATE 07/20/81

CHANGE PC-3 DATE 03/29/82

- 7.5.4 Rad Waste Area (2RITS-8542, 2FR-8315), Lines 12 and 13 respectively.
- 7.5.5 Hydrogen Purge (2RITS-8231-1, 2FI-8277-1), Lines 14 and 15 respectively.
- 7.5.6 Penetration Room (2RITS-8845-1), Lines 16 and 17, respectively.
- 7.5.7 Penetration Room (2RITS-8846-2), Lines 18 and 19, respectively.
- 7.5.8 "A" Steam Header (RI-1007), Line 20.
- 7.5.9 Number of safeties/atmospheric dumps open (this is only applicable if the steam generator has primary-to-secondary leakage; by using this method of calculation, the length of the release is not considered - it is only considered to be a portion of the instantaneous release rate for the time of the calculation), Line 21.
- 7.5.10 "B" Steam Header (RI-1057), Line 22.
- 7.5.11 Number of safeties/atmospheric dumps open (see note on Step 7.5.9), Line 23.
- 7.5.12 Pass Building (2RX-9840)

- A. At the Eberline control terminal, perform the following actions:
 - 1. Insert the key into the "keyboard" switch and activate the terminal.
 - 2. Set the History Format select knob to "Release Rate".
- NOTE: A printout of 24 values will appear.
- 3. Depress the [HIST.MIN] pushbutton then enter "09" then enter either "05", "07" or "09" (low, medium and high range, respectively).
- NOTE: Use only the data from the lowest numbered channel which gives valid on-scale data.
- 4. Depress the [PRINT] then the [.FILE] and then the [ENTER] pushbuttons.
- 5. Record the last value listed onto line 24.

7.6 Make the following determinations:

- 7.6.1 If this is the initial calculation, proceed to Section 8.0 (Data Conversion).
- 7.6.2 Compare the present readings to the values on which the latest projections have been made.
 - A. If the values have not deviated from the most recently checked column on Form 2904.02A by more than the following list, it is not necessary to make new projections. New data should be taken as specified by the Duty Emergency Coordinator or the Dose Assessment Supervisor.



PLANT MANUAL SECTION:
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MAGNITUDE OF RELEASE - COMPUTER METHOD

NO:

2904.01

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REVISION 0 DATE 07/20/81

CHANGE PC-3 DATE 03/29/82



ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE:

EXISTING CONDITIONS SUMMARY

FORM NO.

2904.01A

REV. #0 PC #3

LINE	ITEM	READING				
		1	2	3	4	5
1	DATE					
2	TIME (HHMM)					
	() σ θ (degrees)					
3	[or () Δt ($^{\circ}$ C)] (AAR 9300)					
	WIND DIRECTION (WDR 9300)					
4	FROM, IN DEGREES					
5	WIND SPEED (WSR 9300) MPH					
6	AUX. BLDG. EXTENSION (2RITS-7828) CPM					
	AUX. BLDG. EXTENSION (2FR-7827)					
7	FLOW RATE (CFM)					
8	CONTAINMENT PURGE (2RITS-8233)					
	CONTAINMENT PURGE (2FR-8315)					
9	FLOW RATE (CFM)					
10	FUEL HANDLING AREA (2RITS-8540) CPM					
	FUEL HANDLING AREA (2FR-8315)					
11	FLOW RATE (CFM)					
12	RAD WASTE AREA (2RITS-8542) CPM					
	RAD WASTE AREA (2FR-8315)					
13	FLOW RATE (CFM)					
	HYDROGEN PURGE					
14	(2RITS-8231-1; GAS) CPM					
	HYDROGEN PURGE (2FI-8277-1)					
15	FLOW RATE (CFM)					
16	PENETRATION ROOM (2RITS-8845-1) CPM					
	PENETRATION ROOM FLOW RATE					
17	(2FIS-8827-1) CFM					
18	PENETRATION ROOM (2RITS-8846-2) CPM					
	PENETRATION ROOM FLOW RATE					
19	(2FIS-8828-2) CFM					
20	"A" STEAM HEADER (2RI-1007) mR/hr					
	NO. SAFETIES/ATMOSPHERIC DUMPS					
21	OPEN (HEADER "A")					
22	"B" STEAM HEADER (2RI-1057) mR/hr					
	NO. SAFETIES/ATMOSPHERIC DUMPS					
23	OPEN (HEADER "B")					
	PASS BLDG. (2RX-9840) [MONIT.09,					
24	CHAN. ()05 ()07 ()09] (μ Ci/min)					

REVIEWED BY _____



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: RECORD OF CHANGES AND REVISIONS

FORM NO. 1000.06A

MAGNITUDE OF RELEASE PROCEDURE

REV. # 8 PC #

MAGNITUDE OF RELEASE - UNIT 2

2904.Q2 REV. 3

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Safety

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2	3		20	3										
3	3	3	21	3										
4	3	2	22	3										
5	3	1	23	3										
6	3		24	3										
7	3													
8	3													
9	3	3												
10	3													
11	3	2												
12	3													
13	3													
14	3													
15	3													
16	3													
17	3													
18	3													

APPROVED BY:

J. P. O'Hanlon
(General Manager)

APPROVAL DATE

4/1/82
REQUIRED EFFECTIVE DATE:



PLANT MANUAL SECTION:
MAGNITUDE OF
RELEASE PROCEDURE

PROCEDURE/WORK PLAN TITLE:

MAGNITUDE OF RELEASE - UNIT 2

NO:

2904.02

ARKANSAS NUCLEAR ONE

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CHANGE	pc-3 DATE 3/29/82

- 7.2 Record the $\sigma\theta$ from recorder AAR 9300 on Form 2904.02A, Line 3. If $\sigma\theta$ is not available, record the Δt from recorder AAR 9300 and note appropriately.
- 7.3 Record the prevailing wind direction (40' elev., if available) from recorder WDR 9300 on Form 2904.02A, Line 4.
- 7.4 Record the wind speed (40' elev., if available) from recorder WSR 9300 on Form 2904.02A, Line 5.
- 7.5 Record the net counts per minute and the corresponding system flow rates for each of the following monitors that are in service on Form 2904.02A.
- 7.5.1 Auxiliary Building Extension (2RITS-7828,2FR-7827) Lines 6 and 7, respectively.
 - 7.5.2 Containment Purge (2RITS-8233,2FR-8315), Lines 8 and 9 respectively.
 - 7.5.3 Fuel Handling Area (2RITS-8540,2FR-8315), Lines 10 and 11 respectively.
 - 7.5.4 Rad Waste Area (2RITS-8542,2FR-8315), Lines 12 and 13 respectively.
 - 7.5.5 Hydrogen Purge (2RITS-8231-1,2FI-8277-1), Lines 14 and 15 respectively.
 - 7.5.6 Penetration Room (2RITS-8845-1), Lines 16 and 17, respectively.
 - 7.5.7 Penetration Room (2RITS-8846-2), Lines 18 and 19, respectively.
 - 7.5.8 "A" Steam Header (RI-1007), Line 20.
 - 7.5.9 Number of safeties/atmospheric dumps open (this is only applicable if the steam generator has primary-to-secondary leakage; by using this method of calculation, the length of the release is not considered - it is only considered to be a portion of the instantaneous release rate for the time of the calculation), Line 21.
 - 7.5.10 "B" Steam Header (RI-1057), Line 22.
 - 7.5.11 Number of safeties/atmospheric dumps open (see note on Step 7.5.9), Line 23.
 - 7.5.12 Pass Building (2RX-9840)
 - A. At the Eberline control terminal, perform the following actions:
 - 1. Insert the key into the "keyboard" switch and activate the terminal.
 - 2. Set the History Format select knob to "Release Rate".
 - NOTE: A printout of 24 values will appear.
 - 3. Depress the [HIST.MIN] pushbutton then enter "09" then enter either "05", "07" or "09" (low, medium and high range, respectively).



PLANT MANUAL SECTION:
MAGNITUDE OF
RELEASE PROCEDURE

PROCEDURE/WORK PLAN TITLE:

MAGNITUDE OF RELEASE - UNIT 2

NO:

2904.02

ARKANSAS NUCLEAR ONE

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REVISION 3 DATE 7/20/81

CHANGE PC-3 DATE 3/29/82



ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE: EXISTING CONDITIONS SUMMARY

FORM NO. 2904.02A

REV. #3 PC # 3

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LINE	ITEM	READING				
		()	()	()	()	()
16	PENETRATION ROOM(2RITS-8845-1) CFM	1	2	3	4	5
	PENETRATION ROOM FLOW RATE					
17	(2FIS-8827-1) CFM					
18	PENETRATION ROOM(2RITS-8846-2) CPM					
	PENETRATION ROOM FLOW RATE					
19	(2FIS-8828-2) CFM					
20	"A" STEAM HEADER (2RI-1007) mR/hr					
	NO. SAFETIES/ATMOSPHERIC DUMPS					
21	OPEN (HEADER "A")					
22	"B" STEAM HEADER(2RI-1057) mR/hr					
	NO. SAFETIES/ATMOSPHERIC DUMPS					
23	OPEN (HEADER "B")					
	PASS BLDG. (2RX-9840) (MONIT.09,					
24	CHAN. ()05 ()07 ()09 (μ Ci/Min)					

REVIEWED BY: _____



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

TITLE: RECORD OF CHANGES AND REVISIONS

FORM NO. 1000.06A

MAGNITUDE OF RELEASE PROCEDURE

REV. # 8 PC #

MAGNITUDE OF RELEASE - GERMS

2904.04 REV. 0

UN - Controlled Copy # 103

Safety

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1	0		19	0										
2	0		20	0										
3	0	2	21	0										
4	0		22	0										
5	0		23	0										
6	0		24	0										
7	0													
8	0													
9	0	2												
10	0													
11	0	2												
12	0	1												
13	0													
14	0													
15	0													
16	0													
17	0													
18	0													

APPROVED BY:

J. P. O'Hanlon
(General Manager)

APPROVAL DATE

4/1/82
REQUIRED EFFECTIVE DATE:



PLANT MANUAL SECTION:
MAGNITUDE OF RELEASE
PROCEDURE

PROCEDURE/WORK PLAN TITLE:

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ARKANSAS NUCLEAR ONE

MAGNITUDE OF RELEASE	GERMS	2904.04
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- 7.2 Record the s θ from recorder AAR 9300 on Form 2904.04A, Line 3. If s θ is not available, record the Wt from recorder AAR 9300 and note appropriately.
- 7.3 Record the prevailing wind direction (40' elev., if available) from recorder WDR 9300 on Form 2904.04A, Line 4.
- 7.4 Record the wind speed (40' elev., if available) from recorder WSR 9300 on Form 2904.04A, Line 5.
- 7.5 Record the radioactive release data as indicated on the Eberline CT2 for each of the following release points that are in service on Form 2904.04A:
- 7.5.1 At the Eberline Control Terminal (CT), insert the key into the "keyboard" switch and activate the control terminal.
 - 7.5.2 Set the History Format select knob to "Release Rate."
 - 7.5.3 For each of the channels to be interrogated, depress the [Hist. Min] pushbutton then enter the 2-digit monitor ID number and then the two digit channel ID. Then depress the [ENTER] pushbutton.
 - A. Radwaste Area [2RX-9825] (Monitor 06, Channels 05, 07 or 09; in μ Ci/Min), Line 6.
 - B. Fuel Handling Area [2RX-9830] (Monitor 07, Channels 05, 07 or 90; in μ Ci/Min), Line 7.
 - C. Penetration Room/Hydrogen Purge System [2RX-9835] (Monitor 08, Channels 05, 07 or 09; in μ Ci/Min), Line 8.
 - D. Containment Purge [2RX-9820] (Monitor 05, Channels 05, 07 or 09; in μ Ci/Min), Line 9.
 - E. PASS Building [2RX-9840] (Monitor 09, Channels 05, 07 or 09; in μ Ci/Min), Line 10.
 - F. Auxiliary Building Extension [2RX-9845] (Monitor 10, Channels 05, 07 or 09; in μ Ci/Min), Line 11.
- NOTE: A printout of the 23 previous 10-minute averages plus the current value will appear.
- 7.5.4 Depress the [PRINT] then the [FILE] and then the [ENTER] pushbuttons.



PLANT MANUAL SECTION:
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CHANGE PC-2 DATE 3/29/82



ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE: EXISTING CONDITIONS SUMMARY

FORM NO. 2904.04A

REV. # 0 PC # 2

LINE	ITEM	READING			
		() 1	() 2	() 3	() 4
1	DATE				
2	TIME (HHMM)				
3	00 (degrees) [or () Δt ($^{\circ}C$) (AAR-9300)]				
4	WIND DIRECTION (WDR-9300) FROM, IN DEGREES [~ 15 MIN. AVG.]				
5	WIND SPEED (WSR-9300) MPH [~ 15 MIN AVG]				
6	RADWASTE AREA [MONITOR 06; CHANNEL ()05, ()07, ()09] $\mu Ci/min$				
7	FUEL HANDLING AREA [MONITOR 07; CHANNEL ()05, ()07, ()08, ()09] $\mu Ci/Min$				
8	PENETRATION ROOM/HYDROGEN PURGE [MONITOR 08; Channel ()05, ()07, ()09] $\mu Ci/Min$				
9	CONTAINMENT PURGE [MONITOR 05; CHANNEL ()05, ()07, ()09] $\mu Ci/Min$				
10	PASS BUILDING [MONITOR 09; CHANNEL ()05, ()07, ()09] $\mu Ci/Min$				
11	AUX. BLDG. EXTENSION [MONITOR 10; CHANNEL ()05, ()07, ()09] $\mu Ci/Min$				
12	"A" STEAM HEADER, (2RI-1007) mR/hr	3			
13	NO. SAFETIES/ATMOSPHERIC DUMPS OPEN (HEADER "A")				
14	LB/HR STEAM EXHAUSTED (HEADER A)				
15	"B" STEAM HEADER, (2RI-1057) mR/hr				
16	NO. SAFETIES/ATMOSPHERIC DUMPS OPEN (HEADER "B")				
17	LB/HOUR STEAM EXHAUSTED (HEADER B)				
18	UNMONITORED RELEASE PATH(S), Ci/Sec				



PLANT MANUAL SECTION:
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ARKANSAS POWER & LIGHT COMPANY Arkansas Nuclear One

TITLE: GASEOUS RELEASE RATE WORKSHEET

FORM NO. 2904.04C

REV. # 0 PC # 2

LINE NO.	MONITOR NO.	DESIGNATION	(CIRCLE CHANNEL)	RELEASE RATE (μCi/Min)	RELEASE RATE (Ci/Sec)
1	06	RADWASTE	05 07 09		
2	07	FUEL HD.	05 07 09		
3	08	PEN RM/H ₂	05 07 09		
4	05	CONT. PRG.	05 07 09		
5	09	PASS BLDG.	05 07 09		
6	10	AUX. BLDG. EX.	05 07 09		
7		"A" STM. HDR.*			
8		"B" STM. HDR.*			
9		UNMONITOR.REL.			
10		TOTAL			

- *1. $\text{Net mR/hr} \times \text{No. Safeties Open} \times 0.0152 \frac{\text{Ci/sec}}{\text{mR/hr}} = \text{STEAM RELEASE RATE}$
*2. $\mu\text{Ci/Min} \times 1.67\text{E} - 8 = \text{Ci/Sec}$

or

$$\text{Net mR/hr} \times \text{Lb./hr Steam Exhausted} \times 1.9\text{E}-8 = \text{STEAM RELEASE RATE}$$

Performed by: _____ / _____
Initial Time

Reviewed by: _____