



ARKANSAS POWER & LIGHT COMPANY

Arkansas Nuclear One

MAGNITUDE OF RELEASE PROCEDURE

FORM 1000.06A

MAGNITUDE OF RELEASE - UNIT 1
1904.02 REV 2

Safety Related

UN Controlled Copy # 103

RECORD OF CHANGES AND REVISIONS

PAGE	REVISION	CHANGE	PAGE	REVISION	CHANGE	PAGE	REVISION	CHANGE
1	2		20	2				
2	2		21	2				
3	2	PC-2	22	2				
4	2		23	2				
5	2		24	2				
6	2		25	2				
7	2		26	2				
8	2							
9	2							
10	2							
11	2	PC-1						
12	2							
13	2							
14	2							
15	2							
16	2							
17	2							
18	2							
19	2							

APPROVED BY:

[Signature]
(GENERAL MANAGER)

APPROVAL DATE

3/16/82

8204190018 820329
PDR ADOCK 05000313
F PDR



PLANT MANUAL SECTION:
MAGNITUDE OF RELEASE
PROCEDURE

PROCEDURE/WORK PLAN TITLE:

MAGNITUDE OF RELEASE - UNIT 1

NO:

1904.02

ARKANSAS NUCLEAR ONE

PAGE 3 of 26

REVISION 2 DATE 7/17/81

CHANGE PC-2 DATE 3/4/82

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 1904.02A. 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 1904.02A, 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 1904.02A, Line 4.
- 7.4 Record the wind speed (40' elev., if available) from recorder WSR 9300 on Form 1904.02A, 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 1904.02A.
 - 7.5.1 Stack (RE-7400,FR-8001), Lines 6 and 7, respectively.
 - 7.5.2 Penetration Room (RI-2120,FI-2120), Lines 8 and 9, respectively.
 - 7.5.3 Penetration Room (RI-2130,FI-2130), Lines 10 and 11, respectively.
 - 7.5.4 Hydrogen Purge (RI-7441, RI-7441A, FI-7441), Lines 12, 13 and 14, respectively.
 - 7.5.5 Hydrogen Purge (RI-7442, RI-7442A, FI-7442), Lines 15, 16 and 17, respectively.
 - 7.5.6 "A" Steam Header (RI-2682), Line 18.
 - 7.5.7 Number of safeties/atmospheric dumps open (this is only applicable if the steam generator has primary-to-secondary leakage due to tube rupture; 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; for the initial release, assume 14 safeties open; for follow-up determinations, assume 2 safeties open unless verified to be more or less), Line 19.
 - 7.5.8 "B" Steam Header (RI-2681), Line 20.
 - 7.5.9 Number of safeties/atmospheric dump open (see note on Step 7.5.7), Line 21.
 - 7.5.10 Pass building (refer to 2904 series procedures).
- 7.6 Make the following determinations:
 - 7.6.1 If this is the initial calculation, proceed to Section 8.0 (Data Conversion).