

REQUEST FOR ANALYSIS
Region I Laboratory

CONTROL NUMBER

301309

SAMPLE LOCATION (LICENSEE)

Neutron Products, Inc, Dickerson, Md

LICENSE NO.

DOCKET NO.

Agreement State

SAMPLES SUBMITTED

#(TOTAL)

TYPE

VOLUME

WEIGHT

DATE SAMPLES SUBMITTED

PRIORITY

3/15/89

ROUTINE

URGENT ***

SAMPLE COLLECTION INTERVAL

MONTH

DAY

YEAR

TIME

START

3

14

89

STOP

INSPECTOR RESPONSIBLE

White / Nimitz

PHONE EXT.

ANALYSIS TO BE PERFORMED

LIST DESIRED
LLD (Optional)

OTHER TYPE OF ANALYSIS (Specify)

LIST DESIRED
LLD (Optional)

GROSS ALPHA

Co-60 1-3 mR/hr

X

GROSS BETA

Wipes

X

GAMMA SPEC

TRITIUM

CARBON-14

IODINE-125

REMARKS

Soil Samples; WATER SAMPLES;
Wipes; TAPE

A/20

NOTE: Samples will be discarded after analysis unless reasons are noted above in Remarks.

*** FOR URGENT USE ONLY - Signature Blocks below must be filled out by the Inspector's appropriate Section Chief and by the Chief, Effluents Radiation Protection Section BEFORE submitting this form to the Region I Laboratory.

SIGNATURE - APPROPRIATE NUCLEAR MATERIALS SAFETY SECTION CHIEF

DATE

3/14/89

SIGNATURE - CHIEF, EFFLUENTS RADIATION PROTECTION SECTION

DATE

15 3/16/89

SAMPLE RECORD SHEET
REGION I LABORATORY

ROUTINE
 URGENT DATE NEEDED

SAMPLE LOCATION
Neutron Products - Dickerson, MD

DATE ANALYSIS BEGAN
3-16-89

DATE COMPLETED
3-16-89

ANALYZED BY
JOK DATE
3-16-89

COLLECTED BY
J. White DIVISION
DRSS PHONE

CONTACT NOTIFIED DATE

APPROVED BY DATE

SAMPLE			ANALYZE FOR	INSTRUMENT USED	QUANTITY USED	DATE COUNTED	COUNT TIME	GROSS COUNT	100 MM BACK GROUND	NET COUNT	EFF	RESULT ±1σ dpm/wipe*
NO.	DATE	DESCRIPTION										
17	3/15	lunchroom	JESS β	LB	1	3/16	10 min	40	1.11		0.249	10 ± 3
19		front of ?	↓	↓	↓	↓	↓	36	↓		↓	9 ± 2
20		walkway above	↓	↓	↓	↓	↓	35	↓		↓	8 ± 2
24		near fountain	↓	↓	↓	↓	↓	55	↓		↓	16 ± 3

*Random uncertainties reported are 1 standard deviation, 1σ. small negative and other results ≤ 2σ are interpreted as including "zero" or as not detected. If appropriate, estimates of possible systematic errors are reported in parentheses.

SAMPLE RECORD SHEET
REGION I LABORATORY

LAB CONTROL NUMBER 301389

ROUTINE
 URGENT DATE NEEDED

SAMPLE LOCATION: Neutron Products - Dickerson, MD
 DATE ANALYSIS BEGAN: 3-16-89
 DATE COMPLETED: 3-17-89
 ANALYZED BY: [Signature] DATE: 3/16-17/89
 COLLECTED BY: J. White DIVISION: DRSS PHONE: CONTACT NOTIFIED: DATE: APPROVED BY: DATE:

NO.	DATE	HOUR	SAMPLE DESCRIPTION	ANALYZE FOR	INSTRUMENT USED	QUANTITY USED	DATE COUNTED	COUNT TIME	GROSS COUNT	BACK GROUND	NET COUNT	RESULT ±1σ*
B	3/15		outfall by RR Tracks #2	G-60	8 SPEC	423.7 g	3/16	1000 S				(1.387 ± 0.004)E-3 mCi/g (25%)
C			outfall by RR Tracks #1			315.9 g	3/16	1000 S				(9.78 ± 0.04)E-4 mCi/g (5%)
D			Field by Dickerson School Road by outfall			911.0 g	3/16	1000 S				(3.85 ± 0.15)E-6 mCi/g (50%)
E			Outfall by R.R. #2			594.9 g	3/16	1000 S				(7.90 ± 0.02)E-4 mCi/g (50%)
F			Sample spot at R.R. next to 1 mR			846.9 g	3/17	1000 S				(5.96 ± 0.02)E-4 mCi/g (50%)
G			#1 North Canal			50 ml	3/17	1000 S				(1.97 ± 0.03)E-4 mCi/ml (5%)
H			#2 South Canal			50 ml	3/17	1000 S				(1.90 ± 0.04)E-4 mCi/ml (5%)
I	✓		#3 South Pool	✓	✓	50 ml	3/17	1000 S				(8.27 ± 0.08)E-4 mCi/ml (5%)

* Random uncertainties reported are 1 standard deviation, 1σ. Small negative and other results ≤ 2σ are interpreted as including "zero" or as not detected. If appropriate, estimates of possible systematic errors are reported in parentheses.

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LAB CONTROL NUMBER

30389

ROUTINE
 URGENT

DATE NEEDED

SAMPLE LOCATION
Neutron Products - Dickerson, MD

DATE ANALYSIS BEGAN
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JOK

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J. White

DIVISION
DRSS

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DATE

APPROVED BY

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SAMPLE			ANALYZE FOR	INSTRUMENT USED	QUANTITY USED	DATE COUNTED	COUNT TIME	GROSS COUNT	BACK-GROUND	NET COUNT	RESULT ±1σ *
NO.	DATE	DESCRIPTION									
A	3/15	tape	6.60	spec	tape	3/15	60s				(4.83 ± 0.05) (25%) MC

*Random uncertainties reported are 1 standard deviation, 1σ. small negative and other results ≤ 2σ are interpreted as including "zero" or as not detected. If appropriate, estimates of possible systematic errors are reported in parentheses.