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 FACIL: 50-335 St. Lucie Plant, Unit 1, Florida Power & Light Co. 05000335  
 AUTH. NAME AUTHOR AFFILIATION  
 UHRIG, R. E. Florida Power & Light Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 BEEBE, M. R. Licensee Operators Evaluation Branch

*200/1*

SUBJECT: Forwards comments on suppl info to draft effluent & waste disposal semiannual rept for 1978 encl in 801006 ltr.

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 TITLE: Periodic Environmental Monitoring Rpts (Annual, Semi-Annual, Effluent)

NOTES: *ADD: M. Beebe*

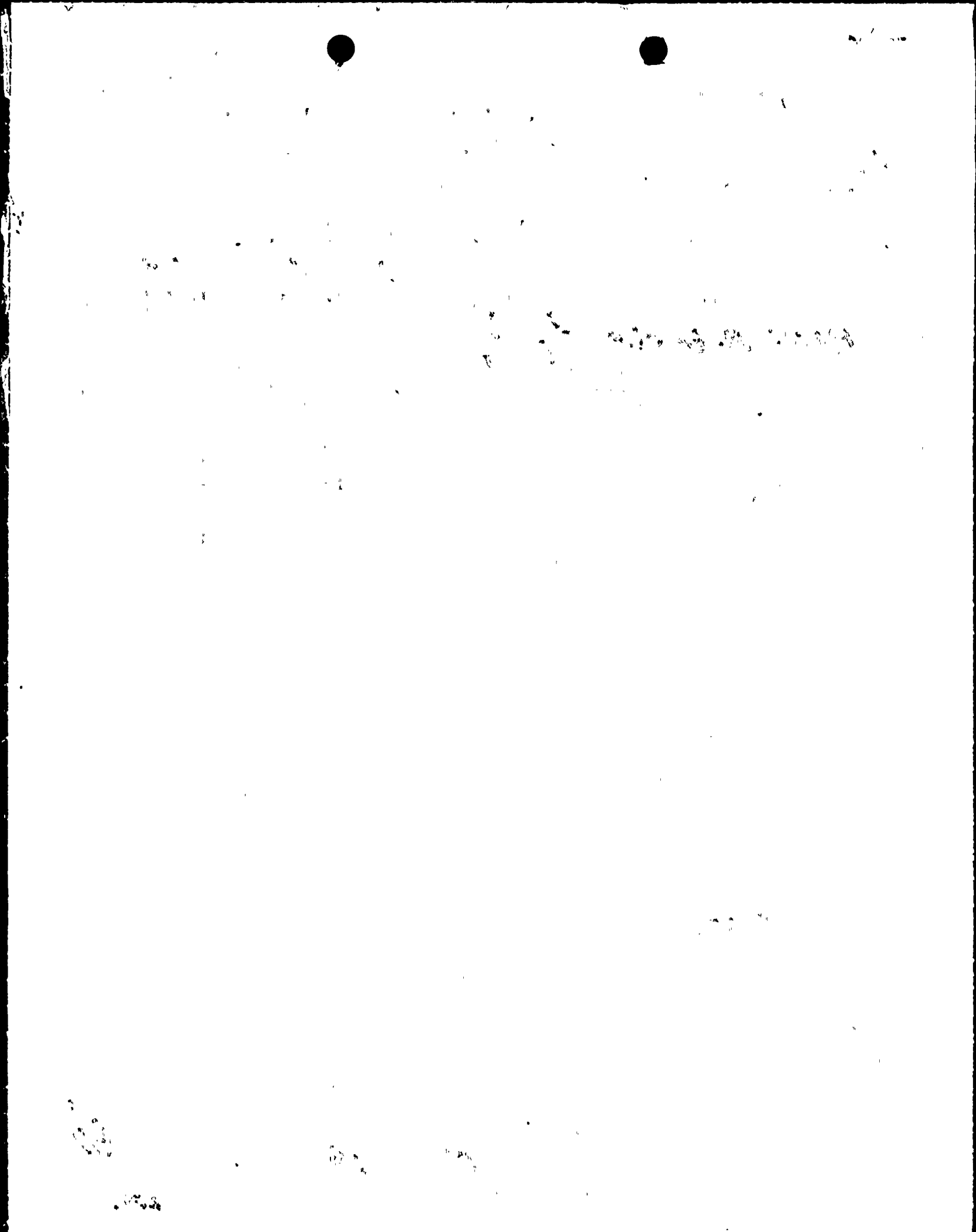
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	NRC PDR	02	1	1	OMPA-HARTFIELD		1 1
	DR ASSESS BR	09	1	1	RAD ASSESS BR10		1 1
	<u>REG FILE</u>	01	1	1			
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FLORIDA POWER & LIGHT COMPANY

October 23, 1980  
L-80-351

1980 NOV 6 PM 3 37

US NRC  
DISTRIBUTION SERVICES  
ANCH

Office of Management and Program Analysis  
Attention: Mr. M.R. Beebe  
Licensee Operations Evaluation Branch  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dear Mr. Beebe:

Re: St. Lucie Unit 1  
Docket No. 50-335  
Summary of Effluents

We have reviewed the draft copy of the St. Lucie data enclosed with an October 6, 1980 letter from Mr. R.A. Hartfield, Chief, Licensee Operations Evaluation Branch. Our comments and suggested changes appear on the attached copy of the draft report.

Very truly yours,

Robert E. Uhrig  
Vice President  
Advanced Systems & Technology

REU/MAS/md

Attachment

cc: J.P. O'Reilly, Region II  
Harold F. Reis, Esquire

*Handwritten notes:*  
A007  
S/11  
ADD:  
M Beebe  
L RE

8011070311

R

INSTALLATION ST. LUCIE

LOCATION 8 MI S FT. PIERCE

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1978  
SUPPLEMENTAL INFORMATION

UNIT NUMBER 1 LICENSEE FLORIDA POWER & LIGHT  
TYPE PWR LICENSED POWER (MWT) 2560.0  
DOCKET NO. 50-335 INITIAL CRITICALITY 04/22/76  
COOLING WATER SOURCE ATLANTIC OCEAN

MAXIMUM PERMISSIBLE CONCENTRATIONS (MICROCURIES/ML) \*

MEASUREMENTS AND APPROXIMATIONS OF TOTAL RADIOACTIVITY

FISSION AND ACTIVATION GASES

PRINCIPAL GAMMA EMITTERS ARE ANALYZED BY GASEOUS GRAB SAMPLES USING GAMMA SPECTRUM PULSE HEIGHT ANALYSES USING LITHIUM-GERMANIUM DETECTORS. ALL PEAKS ARE IDENTIFIED AND QUANTIFIED. TRITIUM IS ANALYZED USING LIQUID SCINTILLATION COUNTING.

IODINES

IODINES ARE ANALYZED USING CHARCOAL FILTER SAMPLES BY GAMMA SPECTRUM PULSE HEIGHT ANALYSES USING LITHIUM-GERMANIUM DETECTORS. ALL PEAKS ARE IDENTIFIED AND QUANTIFIED.

PARTICULATES

PARTICULATES ARE ANALYZED BY PARTICULATE FILTER SAMPLES USING GAMMA SPECTRUM PULSE HEIGHT ANALYSES USING LITHIUM-GERMANIUM DETECTORS. ALL PEAKS ARE IDENTIFIED AND QUANTIFIED. SP-90 AND 89 ARE ANALYZED BY CHEMICAL SEPARATION AND LIQUID SCINTILLATION COUNTING. GROSS ALPHA PARTICULATES ARE ANALYZED BY PARTICULATE FILTER SAMPLES USING GAS FLOW PROPORTIONAL COUNTING.

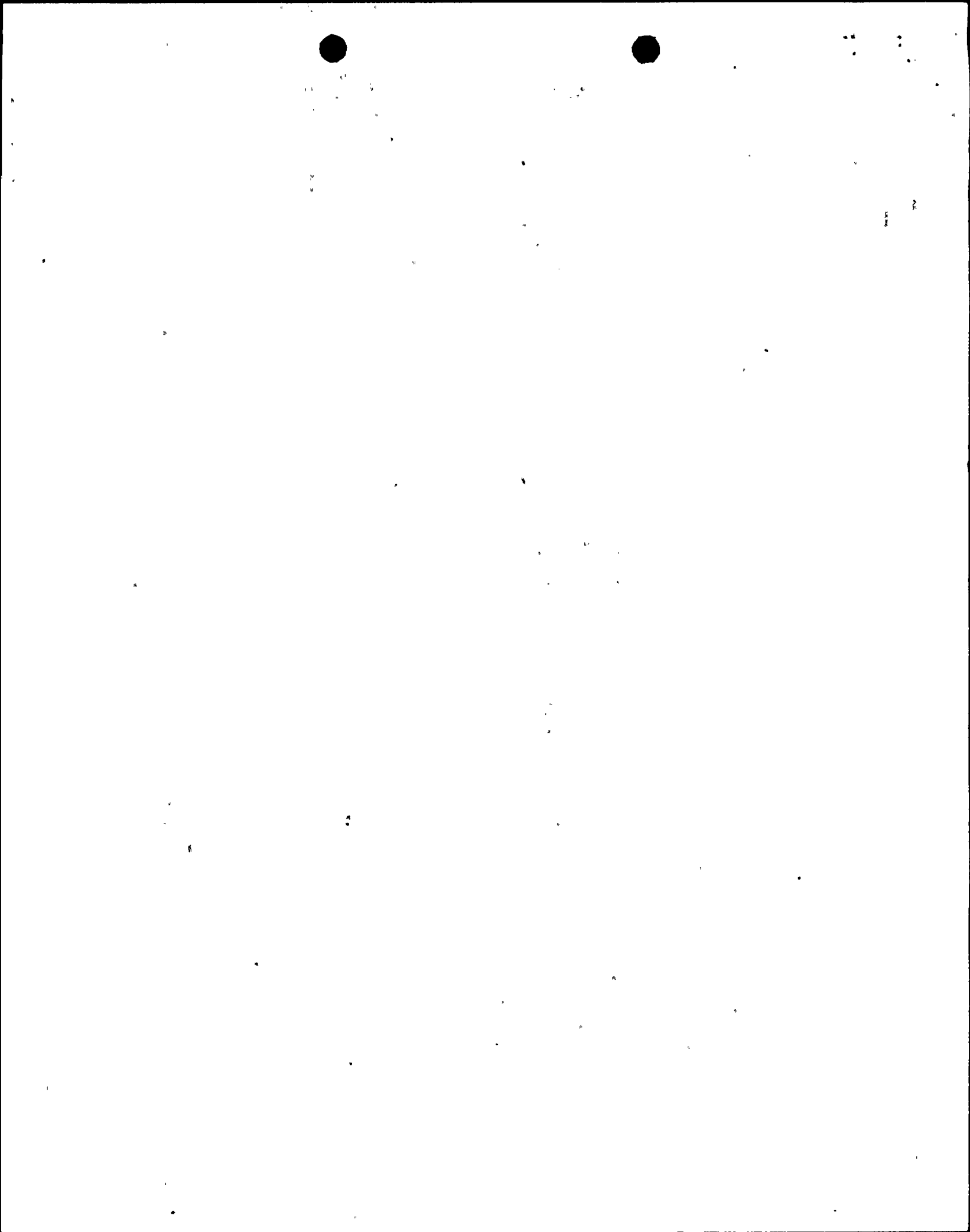
LIQUID EFFLUENTS

PRINCIPAL GAMMA EMITTERS ARE ANALYZED USING GAMMA SPECTRUM PULSE HEIGHT ANALYSES USING LITHIUM-GERMANIUM DETECTORS. TRITIUM IS ANALYZED USING LIQUID SCINTILLATION COUNTING. GROSS ALPHA IS ANALYZED USING GAS FLOW PROPORTIONAL COUNTING. SP-90 AND 89 ARE ANALYZED USING CHEMICAL SEPARATION AND LIQUID SCINTILLATION COUNTING.

FPL: NO COMMENTS

\* 10 CFR PART 20

N/A=NOT APPLICABLE  
N/D=NOT DETECTED  
N/R=NOT REPORTED



INSTALLATION ST. LUCIE

LOCATION 8 MI S FT. PIERCE

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1978  
 SUPPLEMENTAL INFORMATION

AVERAGE ENERGY (MEV/DISINTEGRATION)

BETA		GAMMA	
QUARTER 1	QUARTER 2	QUARTER 1	QUARTER 2
N/A	N/A	N/A	N/A

HATCH RELEASES

A. LIQUID

QUARTER 1	QUARTER 2
1	2

1. NUMBER OF HATCH RELEASES-	41
2. TOTAL TIME PERIOD FOR BATCH RELEASE (MIN)-	2.45E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	1.24E 03
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	5.97E 02
5. MINIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	1.50E 01
6. AVERAGE STREAM FLOW DURING PERIODS OF RELEASE OF EFFLUENT INTO A FLOWING STREAM (LTS/MIN)-	1.32E 06

B. GASEOUS

1. NUMBER OF HATCH RELEASES-	53
2. TOTAL TIME PERIOD FOR BATCH RELEASES (MIN)-	1.18E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	6.00E 02
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	2.22E 02
5. MINIMUM PERIOD FOR A BATCH RELEASE (MIN)-	2.00E 00

ABNORMAL RELEASES

A. LIQUID

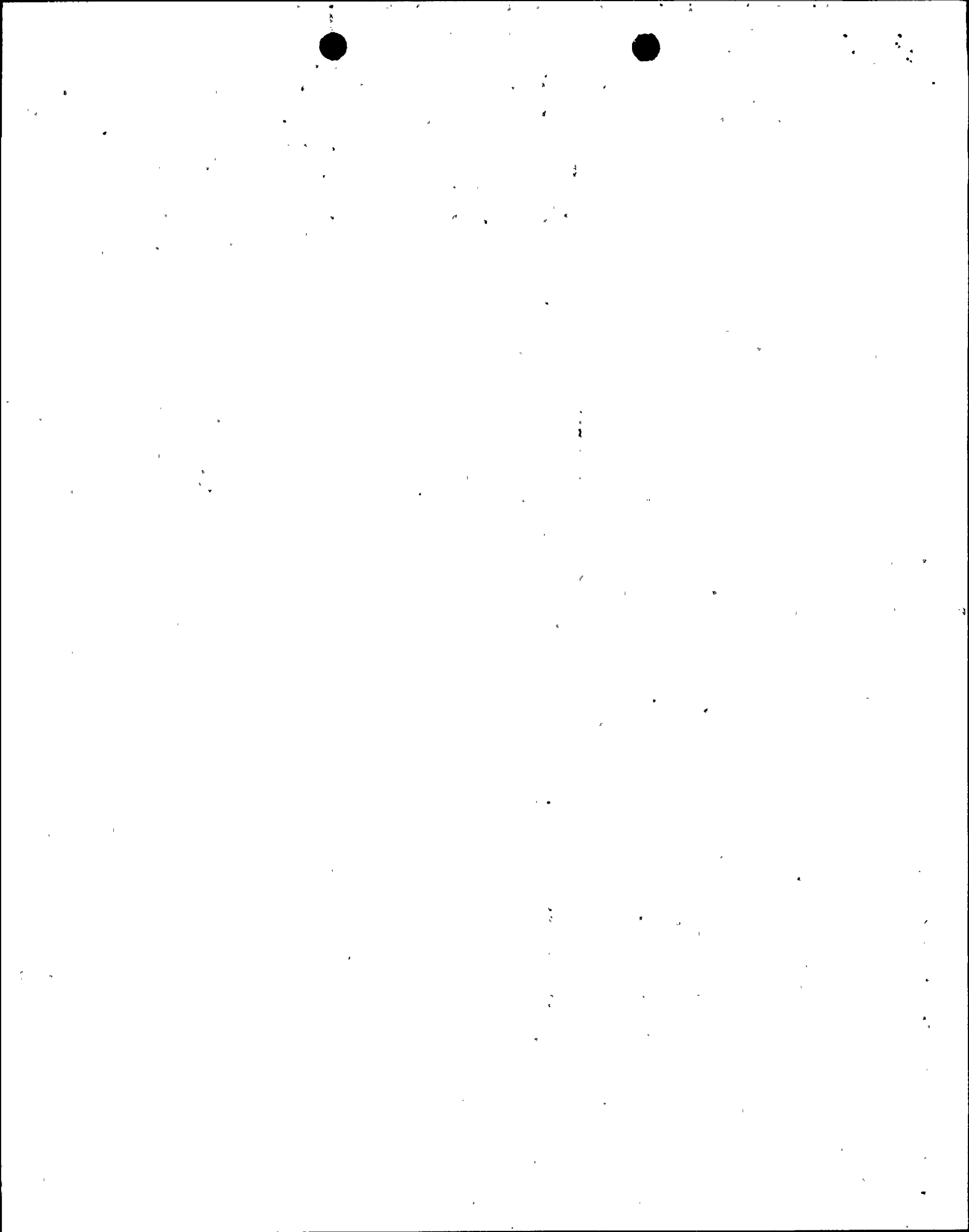
1. NUMBER OF RELEASES	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)	

B. GASEOUS

1. NUMBER OF RELEASES	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)	

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N/A=NOT APPLICABLE  
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INSTALLATION ST. LUCIE

LOCATION 8 MI S FT. PIERCE

FFFLUFNT AND WASTE DISPOSAL SEMIANNUAL REPORT FOR YEAR 1978  
 SUPPLEMENTAL INFORMATION

AVERAGE ENERGY (MEV/DISINTEGRATION)

BETA		GAMMA	
QUARTER	QUARTER	QUARTER	QUARTER
3	4	3	4
N/A	N/A	N/A	N/A

BATCH RELEASES

A. LIQUID

QUARTER	QUARTER
3	4

1. NUMBER OF BATCH RELEASES-	27
2. TOTAL TIME PERIOD FOR BATCH RELEASE (MIN)-	1.43E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	7.10E 02
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	5.28E 02
5. MINIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	2.45E 02
6. AVERAGE STREAM FLOW DURING PERIODS OF RELEASE OF EFFLUENT INTO A FLOWING STREAM (LTS/MIN)-	1.77E 06

B. GASEOUS

NUMBER OF BATCH RELEASES-	65
2. TOTAL TIME PERIOD FOR BATCH RELEASES (MIN)-	1.54E 04
3. MAXIMUM TIME PERIOD FOR A BATCH RELEASE (MIN)-	6.00E 02
4. AVERAGE TIME PERIOD FOR BATCH RELEASES (MIN)-	2.36E 02
5. MINIMUM PERIOD FOR A BATCH RELEASE (MIN)-	1.30E 01

ABNORMAL RELEASES

A. LIQUID

1. NUMBER OF RELEASES	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)	

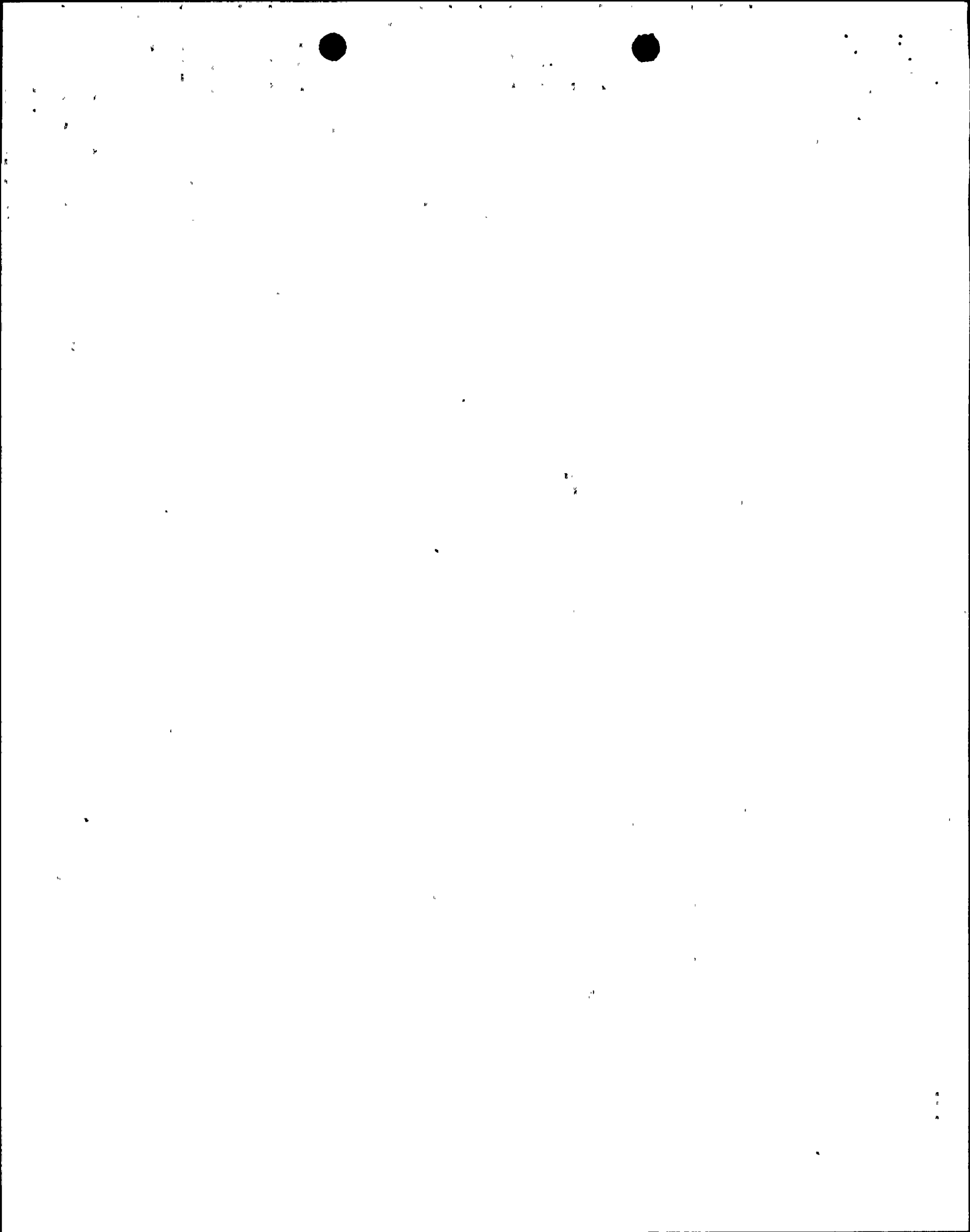
B. GASEOUS

1. NUMBER OF RELEASES	NONE
2. TOTAL ACTIVITY RELEASED (CURIES)	

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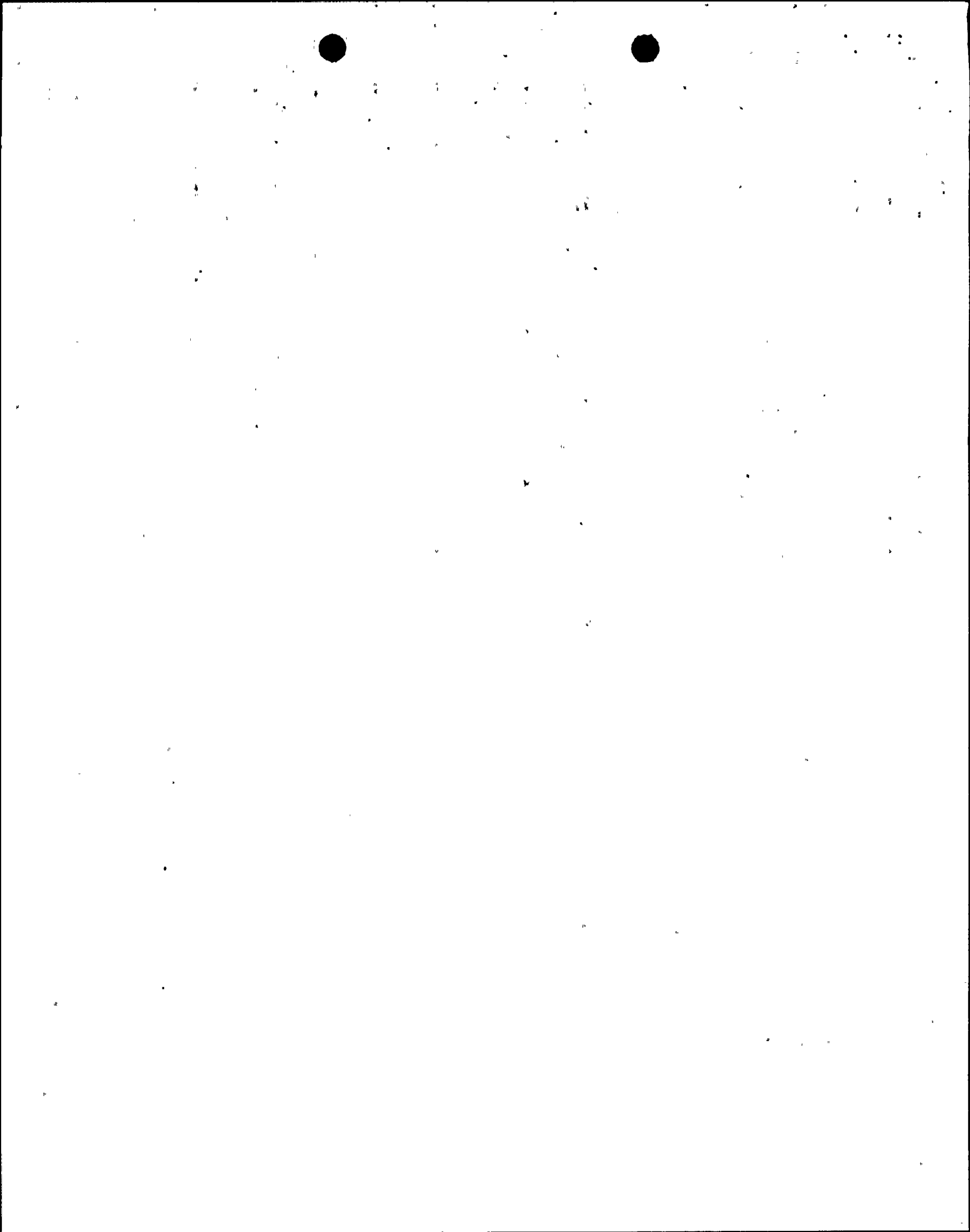
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GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 1	QUARTER 2	EST. TOTAL ERROR,%
<b>A. FISSION AND ACTIVATION GASES</b>				
1. TOTAL RELEASE	CI	1.00E 04	2.49E 03	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	1.27E 03	3.16E 02	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.81E 00	5.42E-01	
<b>B. IODINES</b>				
1. TOTAL IODINE-131	CI	4.49E-02	1.45E-01	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	5.70E-03	1.83E-02	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	2.25E 00	7.23E 00	
<b>C. PARTICULATES</b>				
1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI	4.68E-02	1.48E-01	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	5.93E-03	1.87E-02	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	5.51E-02	2.55E-01	
4. GROSS ALPHA RADIOACTIVITY	CI	0.00E 00	4.60E-06	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CI	8.19E 01	7.54E 01	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	1.04E 01	9.56E 00	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%			

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INSTALLATION=ST. LUCIE

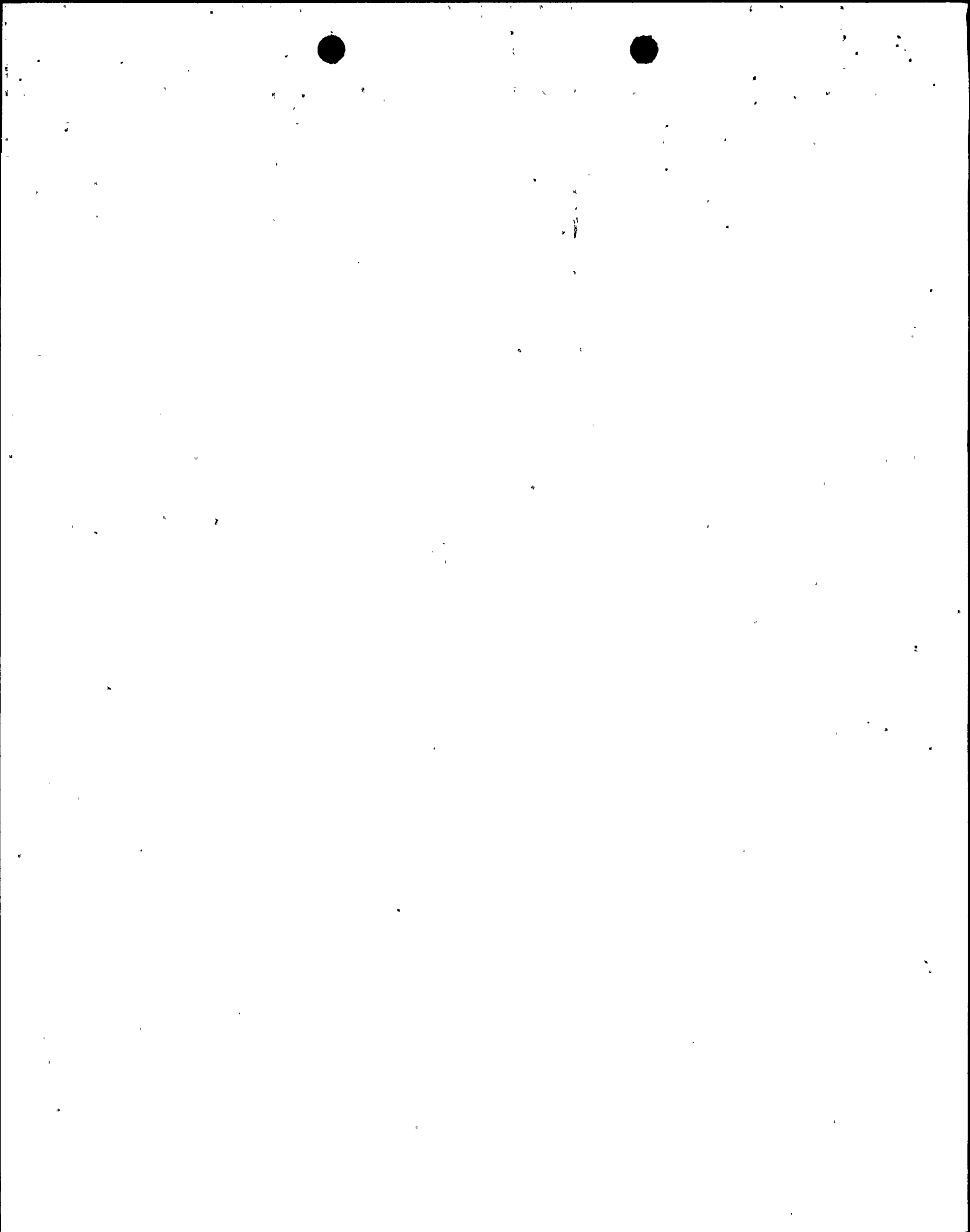
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GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR. %
<b>A. FISSION AND ACTIVATION GASES</b>				
1. TOTAL RELEASE	CI	7.08E 03	9.74E 03	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	8.98E 02	1.24E 03	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	1.68E 00	1.92E 00	
<b>B. IODINES</b>				
1. TOTAL IODINE-131	CI	1.98E-02	4.66E-02	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	2.51E-03	5.91E-03	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	9.88E-01	2.33E 00	
<b>C. PARTICULATES</b>				
1. PARTICULATES WITH HALF-LIVES > 8 DAYS	CI	1.98E-02	4.66E-02	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	2.51E-03	5.91E-03	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%	4.15E-01	2.49E-01	
4. GROSS ALPHA RADIOACTIVITY	CI	0.00E 00	0.00E 00	
<b>D. TRITIUM</b>				
1. TOTAL RELEASE	CI	1.26E 02	2.53E 02	
2. AVERAGE RELEASE RATE FOR PERIOD	UCI/SEC	1.60E 01	3.20E 01	
3. PERCENT OF TECHNICAL SPECIFICATION LIMIT	%			

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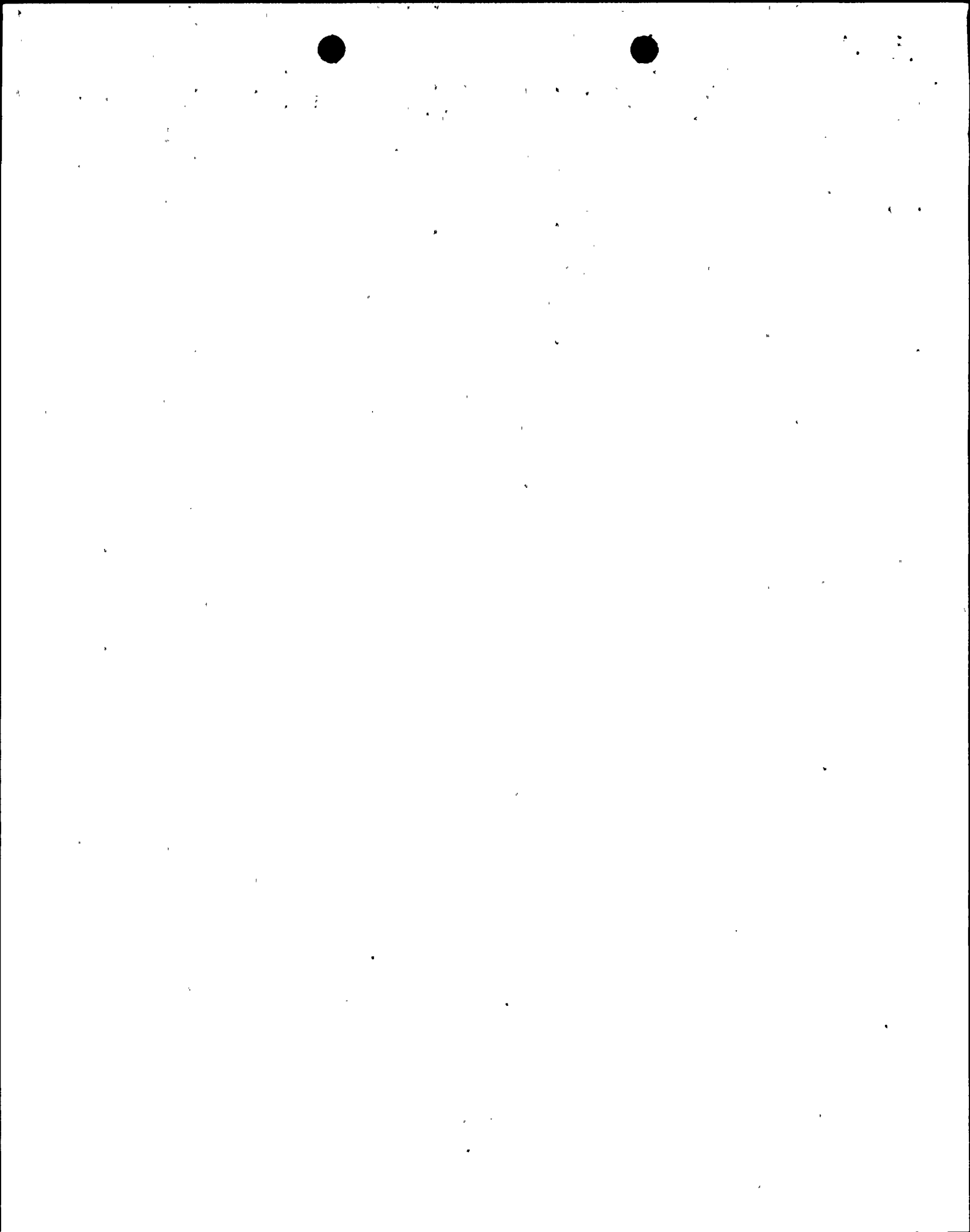
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GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER	QUARTER	QUARTER	QUARTER
		1	2	1	2
<b>FISSION GASES</b>					
AR-41	CI	0.00E 00	0.00E 00	1.08E 00	1.60E-01
KR-85	CI	4.44E 00	4.54E-01	3.25E 00	1.19E 01
KR-85M	CI	1.15E 01	0.00E 00	1.94E 01	7.66E 01
KR-87	CI	0.00E 00	0.00E 00	3.39E-02	1.71E 01
KR-88	CI	0.00E 00	0.00E 00	1.96E 00	1.11E 02
UNIDENTIFIED	CI	0.00E 00	0.00E 00	0.00E 00	0.00E 00
XE-131M	CI	1.29E 01	1.72E 00	1.05E 01	5.77E 00
XE-133	CI	5.50E 03	7.83E 02	4.24E 03	1.41E 03
XE-133M	CI	1.44E 01	0.00E 00	2.96E 01	2.10E 01
XE-135	CI	1.34E 02	4.08E 00	3.97E 01	6.13E 00
XE-135M	CI	0.00E 00	0.00E 00	6.58E-03	0.00E 00
XE-138	CI	0.00E 00	0.00E 00	8.17E-02	3.91E 01
<b>IODINES</b>					
I-131	CI	2.87E-02	1.44E-01	1.62E-02	5.36E-04
I-132	CI	1.10E-03	0.00E 00	0.00E 00	0.00E 00
I-133	CI	8.08E-03	1.34E-01	4.79E-03	7.80E-06
I-135	CI	0.00E 00	0.00E 00	2.85E-05	0.00E 00
<b>PARTICULATES</b>					
CO-58	CI	7.00E-05	6.11E-04	1.36E-03	7.71E-04
CR-51	CI	4.10E-04	0.00E 00	0.00E 00	0.00E 00
CS-134	CI	0.00E 00	0.00E 00	0.00E 00	1.07E-03
CS-137	CI	0.00E 00	5.00E-05	0.00E 00	6.70E-04
RB-88	CI	0.00E 00	0.00E 00	4.28E-01	6.53E-03
SR-89	CI	4.61E-06	4.50E-06	0.00E 00	0.00E 00
SR-90	CI	0.00E 00	8.23E-06	0.00E 00	0.00E 00

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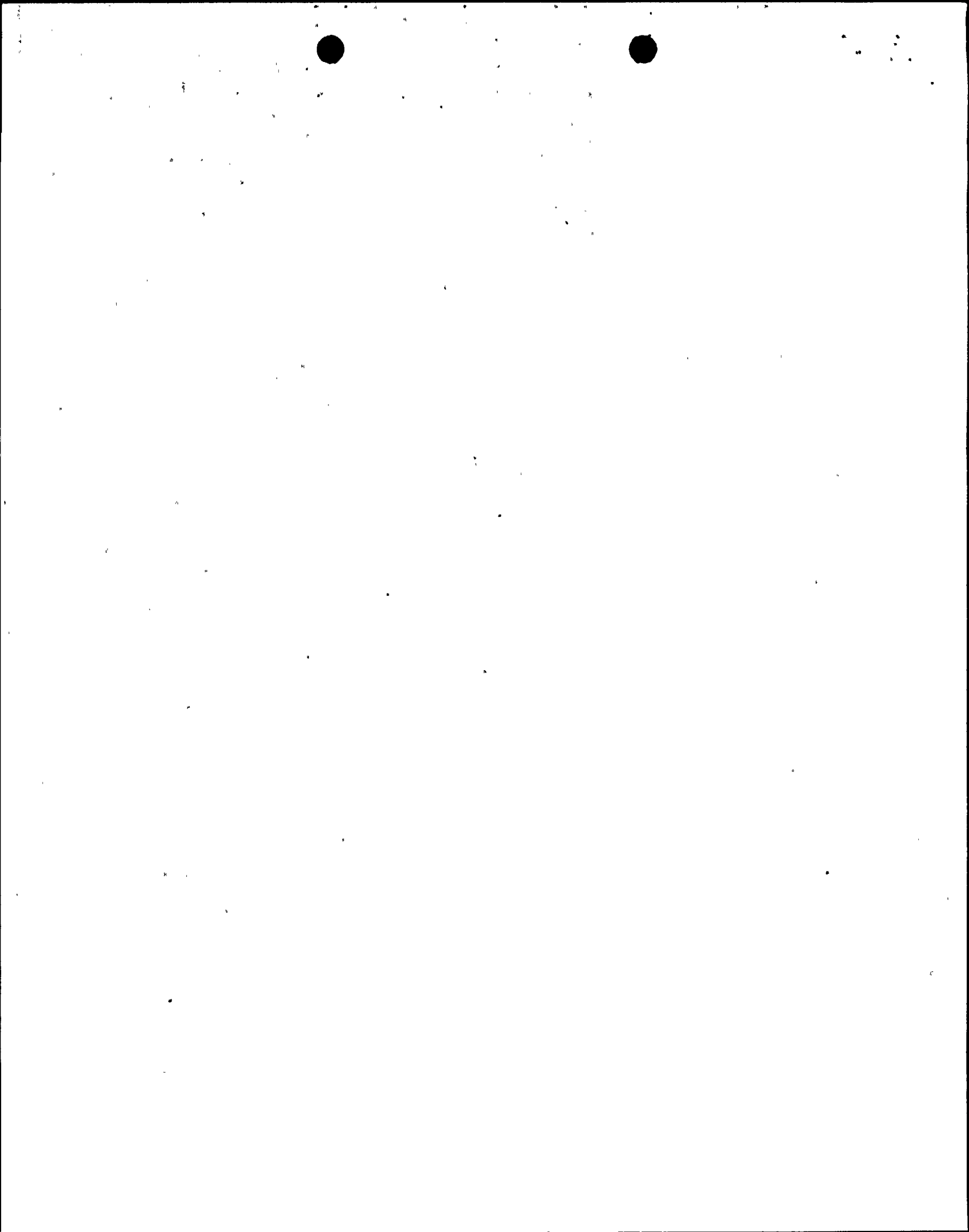
GAS EFFLUENTS GROUND RELEASE

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
<b>FISSION GASES</b>					
AR-41	CI	0.00E 00	0.00E 00	3.43E 00	3.19E 00
KR-85	CI	0.00E 00	0.00E 00	1.94E 01	2.90E 01
KR-85M	CI	0.00E 00	1.47E 00	3.46E 02	9.02E 01
KR-87	CI	0.00E 00	0.00E 00	7.48E 01	3.90E 01
KR-88	CI	0.00E 00	2.74E 00	4.14E 02	1.37E 02
UNIDENTIFIED	CI	0.00E 00	0.00E 00	0.00E 00	0.00E 00
XE-131M	CI	0.00E 00	0.00E 00	4.81E 01	3.56E 02
XE-133	CI	7.90E 02	4.11E 03	5.04E 03	4.70E 03
XE-133M	CI	3.57E 00	4.40E 01	2.85E 01	3.71E 01
XE-135	CI	3.67E 01	1.09E 02	1.05E 02	4.94E 01
XE-135M	CI	0.00E 00	0.00E 00	2.44E 01	2.12E 00
XE-138	CI	0.00E 00	0.00E 00	1.46E 02	5.18E 01
<b>IODINES</b>					
I-131	CI	1.23E-02	2.05E-02	7.46E-03	7.61E-02
I-133	CI	4.38E-01	2.28E-01	4.57E-06	8.43E-05
I-135	CI	0.00E 00	0.00E 00	0.00E 00	1.12E-05
<b>PARTICULATES</b>					
CO-59	CI	0.00E 00	3.49E-06	0.00E 00	0.00E 00
SR-89	CI	4.80E-06	0.00E 00	0.00E 00	0.00E 00
SR-90	CI	8.22E-06	0.00E 00	0.00E 00	0.00E 00

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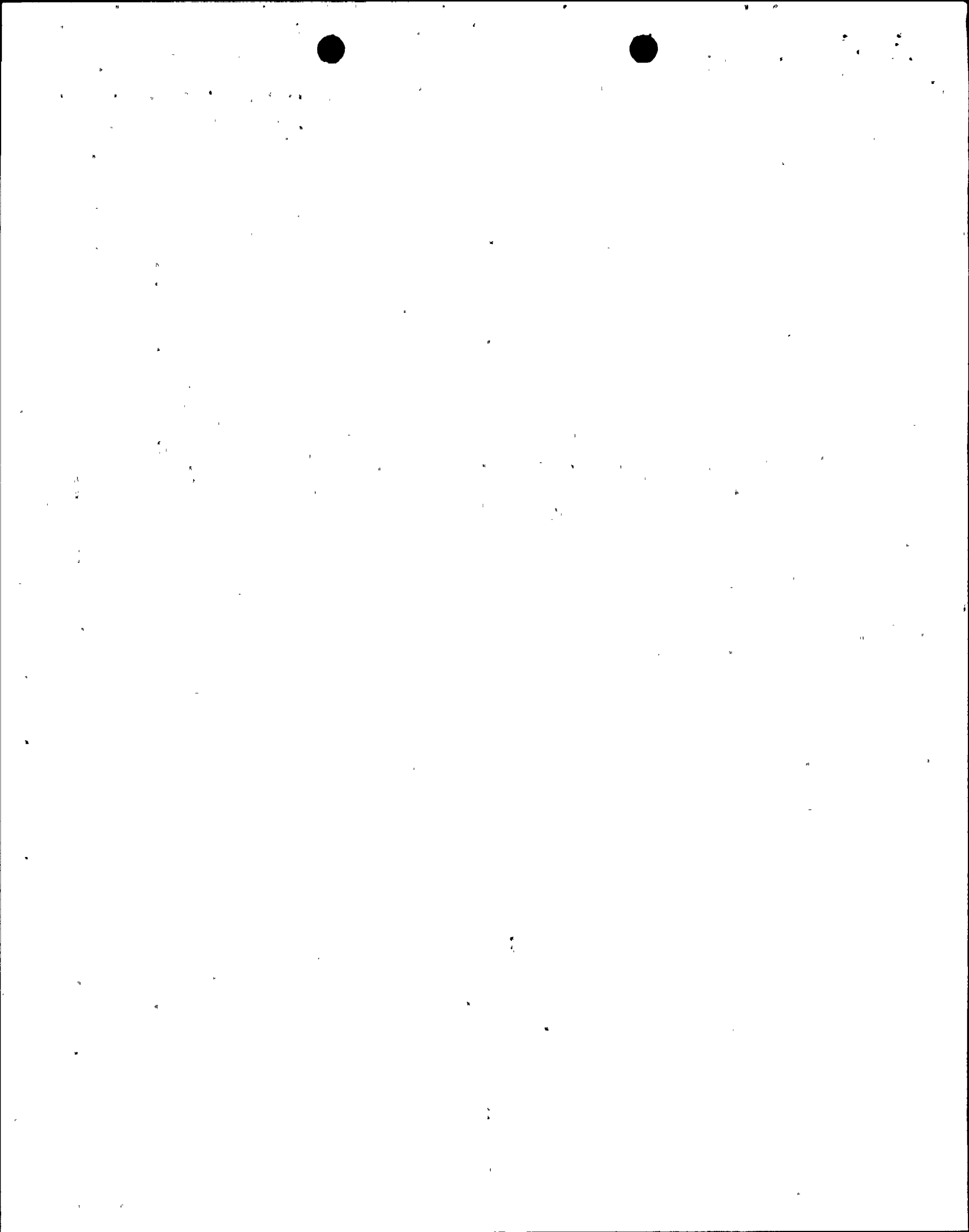
EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1978

LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER	QUARTER	QUARTER	QUARTER
		1	2	1	2
		NONE	NONE		
AG-110M	CI			8.17E-03	3.93E-03
BA-140-LA-140	CI			1.98E-03	1.12E-03
BR-R2	CI			1.57E-03	3.77E-04
CE-144-PR-144	CI			3.43E-03	5.22E-03
CO-57	CI			7.77E-04	6.58E-04
CO-58	CI			3.39E-01	3.61E-01
CO-60	CI			2.48E-02	4.27E-02
CR-51	CI			4.26E-02	6.17E-02
CS-134	CI			7.89E-02	1.39E-02
CS-136	CI			8.01E-04	1.31E-03
CS-137	CI			2.17E-01	2.57E-02
FE-59	CI			3.97E-03	1.00E-02
I-131	CI			7.22E-02	5.12E-02
I-132	CI			6.52E-04	9.11E-04
I-133	CI			5.96E-03	7.98E-03
I-135	CI			1.46E-03	2.00E-03
MN-54	CI			5.71E-03	8.11E-03
MN-56	CI			7.77E-06	0.00E 00
MO-99-TC-99M	CI			2.41E-03	9.26E-03
NA-24	CI			9.15E-04	8.69E-05
NI-65	CI			2.93E-03	1.41E-03
NP-239	CI			4.33E-04	2.35E-04
RU-103	CI			0.00E 00	1.26E-04
SJ-122	CI			9.83E-03	5.19E-04
SB-124	CI			1.20E-02	1.31E-02
SB-125	CI			1.37E-04	1.00E-02
SN-113-IN-113M	CI			3.38E-04	9.21E-04
SR-89	CI			1.73E-07	0.00E 00
SR-90	CI			0.00E 00	5.10E-04
UNIDENTIFIED	CI			0.00E 00	0.00E 00
V-187	CI			1.13E-02	4.22E-03
ZN-65	CI			8.13E-04	6.14E-04
ZR-NR-97	CI			9.71E-03	8.00E-03
ZR-95-NH-95	CI			2.56E-02	5.15E-02
AR-41	CI			1.20E-04	0.00E 00
KR-85	CI			2.04E-01	5.73E-02
KR-85M	CI			3.02E-05	1.81E-05
XE-131M	CI			7.89E-02	1.34E-03
XE-133	CI			1.45E 01	1.32E-01
XE-133M	CI			3.40E-02	8.38E-04
XE-135	CI			1.47E-02	1.17E-04
XE-138	CI			0.00E 00	1.29E-04

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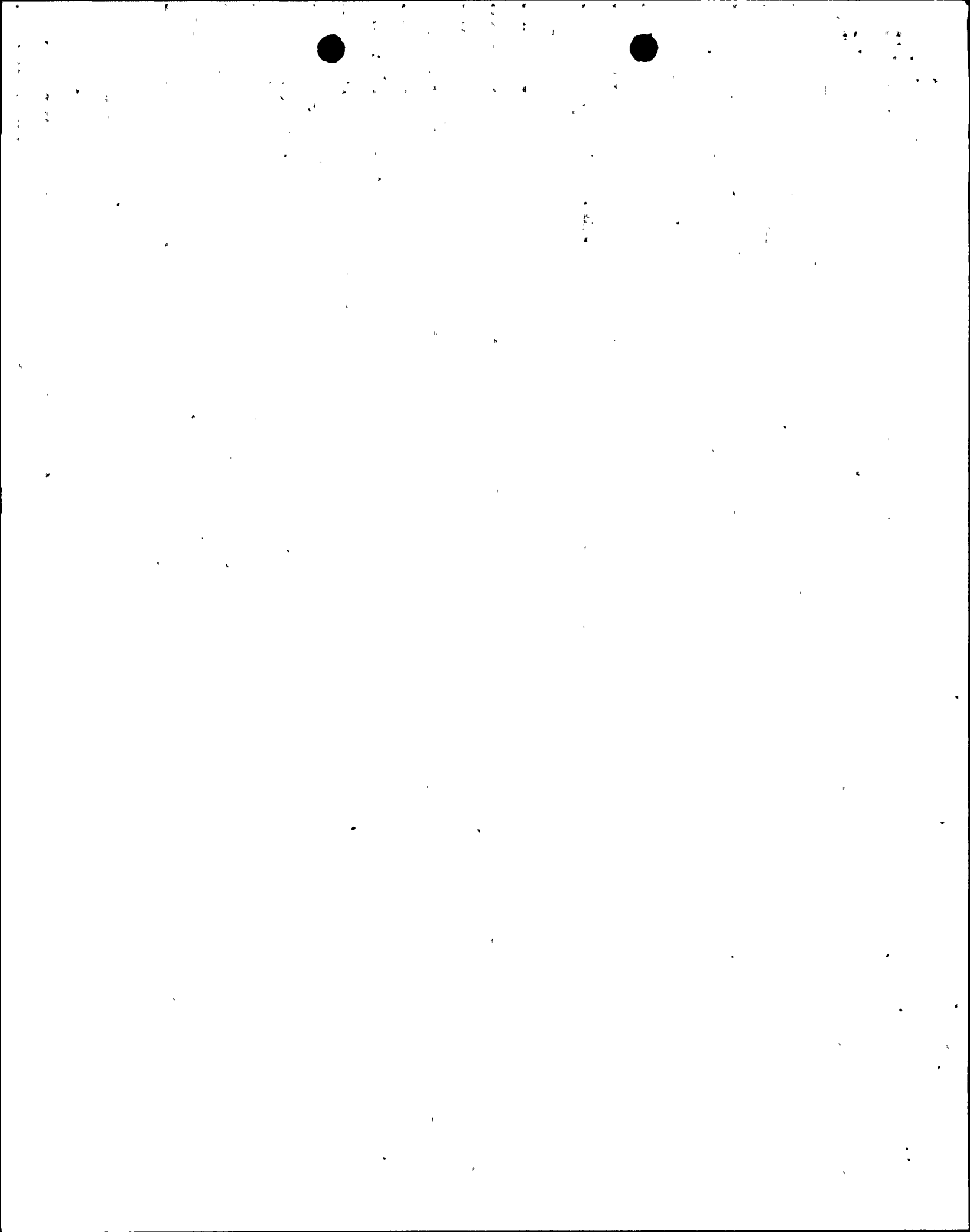
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

LIQUID EFFLUENTS

NUCLIDES RELEASED	UNIT	CONTINUOUS MODE		BATCH MODE	
		QUARTER	QUARTER	QUARTER	QUARTER
		3	4	3	4
		NONE	NONE		
AG-110M	CI			9.99E-04	5.97E-04
BA-140	CI			4.61E-05	1.36E-03
BR-82	CI			0.00E 00	5.98E-04
CE-141	CI			2.60E-05	1.87E-04
CE-144	CI			1.69E-03	6.22E-03
CO-57	CI			4.27E-04	7.23E-04
CO-58	CI			7.54E-02	2.79E-01
CO-60	CI			6.20E-02	1.27E-01
CR-51	CI			7.72E-03	6.38E-02
CS-134	CI			4.60E-03	5.22E-02
CS-136	CI			3.04E-04	3.06E-03
CS-137	CI			9.15E-03	8.79E-02
FE-59	CI			2.21E-03	4.28E-03
I-131	CI			1.56E-02	1.71E-01
I-133	CI			8.08E-04	7.42E-03
I-135	CI			4.17E-05	5.67E-03
MN-54	CI			9.48E-03	1.62E-02
MO-99	CI			2.68E-05	1.10E-02
NA-24	CI			1.64E-04	3.90E-05
NI-65	CI			4.11E-04	1.01E-03
NP-239	CI			7.10E-05	3.57E-04
RU-103	CI			0.00E 00	1.43E-04
SB-122	CI			3.00E-04	4.44E-03
SB-124	CI			5.43E-04	3.32E-02
SB-125	CI			9.21E-04	4.77E-03
SN-113	CI			9.83E-04	1.78E-03
SR-89	CI			0.00E 00	1.76E-04
SR-90	CI			6.60E-08	1.61E-04
UNIDENTIFIED	CI			0.00E 00	0.00E 00
X-147	CI			1.23E-03	7.86E-03
ZN-65	CI			4.20E-04	1.34E-03
ZR-95	CI			4.04E-02	8.01E-02
ZR-97	CI			1.57E-03	9.05E-03
AR-41	CI			1.39E-04	1.35E-03
KR-85	CI			6.69E-04	1.72E-03
XE-131M	CI			5.75E-05	1.18E-02
XE-133	CI			7.35E-01	2.76E-01
XE-133M	CI			2.45E-03	6.68E-04
XE-135	CI			6.86E-05	4.69E-04

FPL: NO COMMENTS

N/A=NOT APPLICABLE  
 N/D=NOT DETECTED  
 N/R=NOT REPORTED



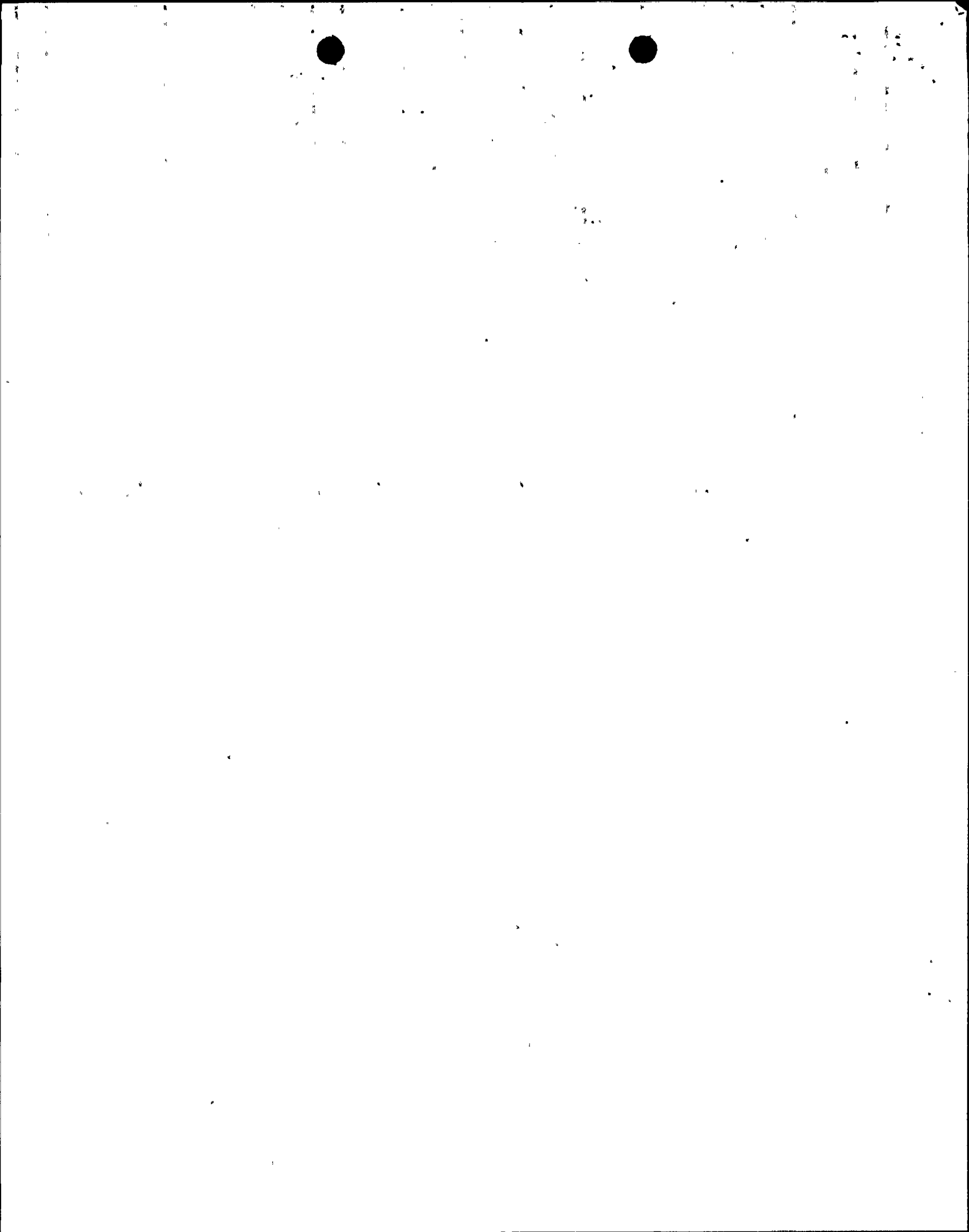
## EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1978

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 1	QUARTER 2	EST. TOTAL ERROR,%
<b>A. FISSION AND ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CI	8.88E-01	6.93E-01	
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	4.67E-08	5.17E-08	
3. PERCENT OF APPLICABLE LIMIT	%	8.88E 00	6.93E 00	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CI	4.28E 01	2.01E 01	
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	2.25E-06	1.50E-06	
3. PERCENT OF APPLICABLE LIMIT	%			
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. TOTAL RELEASE	CI	1.88E 01	1.97E-01	
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	.9.91E-07	1.43E-08	
3. PERCENT OF APPLICABLE LIMIT	%			
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CI	0.00E 00	0.00E 00	
<b>E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)</b>				
	LITERS	1.78E 06	2.44E 06	
<b>F. VOLUME OF DILUTION WATER USED DURING PERIOD</b>				
	LITERS	1.90E 10	1.34E 10	

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EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 197A

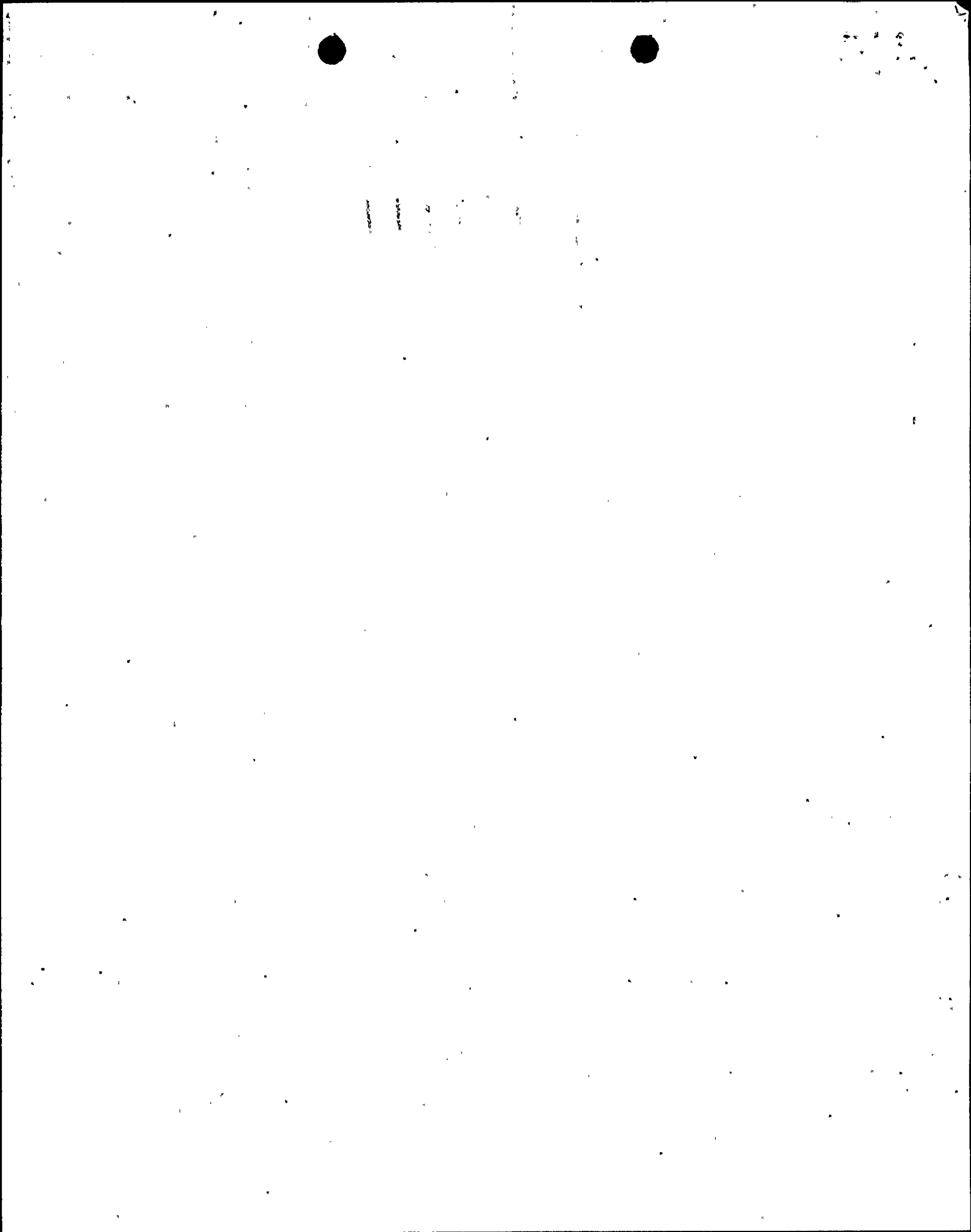
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	UNIT	QUARTER 3	QUARTER 4	EST. TOTAL ERROR, %
<b>A. FISSION AND ACTIVATION PRODUCTS</b>				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CI	2.38E-01	9.82E-01	
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/KL	1.98E-08	7.44E-08	
3. PERCENT OF APPLICABLE LIMIT	%	2.38E 00	9.82E 00	
<b>B. TRITIUM</b>				
1. TOTAL RELEASE	CI	2.03E 01	4.51E 01	
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	1.69E-06	3.42E-06	
3. PERCENT OF APPLICABLE LIMIT	%			
<b>C. DISSOLVED AND ENTRAINED GASES</b>				
1. TOTAL RELEASE	CI	7.38E-01	2.92E-01	
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	UCI/ML	6.15E-08	2.21E-08	
3. PERCENT OF APPLICABLE LIMIT	%			
<b>D. GROSS ALPHA RADIOACTIVITY</b>				
1. TOTAL RELEASE	CI	0.00E 00	0.00E 00	
<b>E. VOLUME OF WASTE RELEASED (PRIOR TO DILUTION)</b>				
	LITERS	1.19E 06	1.56E 06	
<b>F. VOLUME OF DILUTION WATER USED DURING PERIOD</b>				
	LITERS	1.20E 10	1.32E 10	

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INSTALLATION= ST. LUCIE

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1978  
(JANUARY-JUNE)

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (NOT IRRADIATED FUEL)

1. TYPE OF WASTE	UNIT	6-MONTH PERIOD	EST. TOTAL ERROR, %
A. SPENT RESINS, FILTER SLUDGES, EVAPORATOR BOTTOMS, ETC.	M3	2.20E 01	
B. DRY COMPRESSIBLE WASTE, CONTAMINATED EQUIPMENT, ETC.	CI	1.00E 02	2.00E 01
C. IRRADIATED COMPONENTS, CONTROL RODS, ETC.	M3	9.80E 01	
	CI	3.20E 01	2.00E 01
D. OTHER (DESCRIBE)	M3	2.00E-01	
	CI	1.23E 04	

2. ESTIMATE OF MAJOR NUCLIDE COMPOSITION (BY TYPE OF WASTE)

A		%	
CO-58		%	7.70E 01
CS-137		%	1.00E 01
CO-60		%	5.00E 00
B			
CO-58		%	7.70E 01
CS-137		%	1.00E 01
CO-60		%	5.00E 00
C			
CR-51		%	4.60E 01
FE-55		%	1.50E 01
CO-58		%	1.20E 01

3. SOLID WASTE DISPOSITION-

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
1	TRUCK	W. JEFFERSON OH
7	TRUCK	BARNWELL SC

FPL COMMENT: THERE IS NO  
SECOND PAGE FOR THE  
JULY-DECEMBER  
TIME PERIOD.

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