OCT 23 1961

DUQUESNE LIGHT COMPANY

MASTER

435 SIXTH AVENUE

PITTSBURGH 19, PENNSYLVANIA

October 4, 1961

ADDRESS REPLY TO
DLS:RJL:95

Test Program
Test Evaluation

Mr. R. M. Forssell, Manager
Shippingport Branch Office
U. S. Atomic Energy Commission
Shippingport, Pennsylvania

Dear Mr. Forssell:

This letter forwards thirteen (13) copies of the final Test Evaluation for DLCS 169020₁, Radioactive Waste Disposal System Periodic Radiation Monitoring Survey.

Since the information obtained from this test is normally obtained on a routine basis by the Health Physics Group, the Duquesne Light Company recommends that this test be deleted from the test program.

Your concurrence and approval are requested by October 21, 1961.

Very truly yours,

G. M. Oldham
Superintendent

cc/w enclosure

Distribution List: S-III-A

R. F. Devine (11)

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MASTER

DUQUESNE LIGHT COMPANY
SHIPPINGPORT ATOMIC POWER STATION

TEST EVALUATION

DLCS 1690204

T-612075

RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY

CORE I SEED 2

TEST EVALUATION

DLCS 1690204
T-612075

RADIOACTIVE WASTE DISPOSAL SYSTEM PERIODIC RADIATION MONITORING SURVEY

CORE I SEED 2

Purpose

To determine periodically the radiation level at all monitored points in the Radioactive Waste Disposal Plant and the effectiveness of shielding facilities in working areas at times during which the radiation level is above limits set up by Health Physics.

Conclusions

The radiation control measures in effect during the period of test performance appear to be adequate; however, no conclusion can be made as to the effectiveness of the shielding facilities in the work areas.

The evaporator waste drumming and incinerator operation are not radiation exposure problems based on the observed radiation levels. The incinerator, in its present operating condition, is a possible source of airborne contamination.

Description of Test Equipment and Test Procedure

A radiation profile of the Radioactive Waste area was made using radiation control instruments normally available on site. Actual survey work and air sampling was performed by Radiation Control Technicians of the Health Physics Group. This survey work was very similar to the routine surveys of the Radioactive Waste Disposal Areas periodically conducted by Health Physics except for a few additional readings. In addition to the radiation surveys, air samplings were made, as necessary, to reflect activity level changes which occurred during incinerator or drumming operations. The data requested in Sections VIII-A through H of the approved procedure were not collected because the equipment was out of service for repair or because of the lack of recent calibration data (last calibration date - November 26, 1958).

Unless specified otherwise, radiation survey readings were made at waist-height in passageways, stairways, and equipment areas. Some readings were taken on contact, or at specified distances.

Section VI-H of the test procedure was not performed because of the lack of high activity levels in the tanks outlined.

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RADIOACTIVE WASTE DISPOSAL SYSTEM PERIODIC RADIATION MONITORING SURVEY

The data requested in Section VIII-I through N of the test procedure were not taken, as only two frisker stations were in operation at the time of test performance. Available calibration data and calibration procedures as practiced by Health Physics Group indicated that a true calibration of the area's frisker stations was not performed. Actually, only an equipment-operational check was made periodically. This check did not provide for sensitivity adjustment, nor were the instruments calibrated with a standard source.

Results

DLCS 1690204 data indicated herein was assembled from surveys and observations made in the Radioactive Waste Disposal areas as noted.

Table No.	Date data was obtained	Areas surveyed
No. 1	2/14 - 2/15/61	Entire RWD area
No. 1	2/21/61	Entire RWD area
No. 1	3/2/61	Chemical Waste Tanks
No. 1	4/29/61	Entire RWD area
No. 2	4/12/61 Figure 1	Incinerator operation
No. 3	4/17/61	Drumming operation
No. 3	4/26/61	Rolling operation
No. 4	5/3/61	Check of RWD Radiation Monitors and Frisker Stations.

Data from the radiation survey conducted on February 14, 1961, (Table I and Appendix I) indicates only three instances of radiation levels being higher than 5 mr/hr. Point No. 3 - 300 mr/hr, Point No. 14 - 8.5 mr/hr and Point No. 199 - 9.0 mr/hr. Points No. 3 and 14 represent trash being held for the incinerator. The radiation level outside the building, Point No. 227, indicated 0.80 mr/hr, which represents approximately 99.75% reduction in the radiation level. At the same time, survey points No. 2 and 4 read <5.0 mr/hr. Point No. 199 was the radiation level at the radioactive waste drumming station location. Adjacent survey points No. 197, 200 and 206 read <5.0 mr/hr. These instances of high radiation levels >5.0 mr/hr occurred in radiation and contamination control areas. Control measures and shielding facilities were adequate at this time.

On February 21, 1961, another radiation survey was made of the Radioactive Waste Disposal building interior. Only one point, No. 199, in the radioactive waste drumming area indicated an activity at the 5.0 mr/hr level. As before, the survey on February 14, 1961, the area was a control area and a survey of adjacent points indicated adequate shielding facilities.

Subsequent partial radiation surveys indicated no radiation levels >5.0 mr/hr

RADIOACTIVE WASTE DISPOSAL SYSTEM PERIODIC RADIATION MONITORING SURVEY

except for point No. 13, in the new drumming station location which had a radiation level of 5.0 mr/hr on April 26, 1961. At the spray recycle tank, Point No. 90, the radiation level on April 29, 1961, was 5.0 mr/hr. Radiation Control and shielding facilities were adequate in both these locations.

Radiation level data as recorded during incinerator operation, are presented in Table II. The radiation dosage received by the operator during incinerator loading appears to be proportional to the radiation level of the waste being loaded. The operation of the Radiation Monitoring System Channel No. 3 was not considered reliable because of the lack of recent calibration data (last calibration date November 26, 1958). During the burning of combustible radioactive wastes the incinerator was observed to be a possible source of airborne radioactive contamination. A subsequent air sample (No. 3964) taken by Health Physics failed to indicate a significant amount of airborne contamination. A detailed radiation survey was made on April 12, 1961 when additional radioactive waste was to be processed in the incinerator (Figure I), but operational difficulties postponed use of the incinerator. Radiation levels of the waste collected were higher than the wastes collected during the previous period of operation. The maximum radiation level of waste in the bags observed was 170 mr/hr, and 35 mr/hr in the barrels.

Data taken during the drumming operation are presented in Table III. Channel 2 Radiation Monitoring System readings were not considered reliable due to the lack of recent calibration data. There was no apparent increase in the radiation dosage received on April 17, 1961, by the operator during the handling of radioactive waste material with an activity level of 23 mr/hr; however, the dosimeter registers only gamma radiation. On April 21, 1961, the rolling sequence of the drumming operation indicated equal distribution of radioactive waste throughout the drum. The lower 1/4 of the drum read 41 mr/hr prior to the start of the rolling. After the rolling was complete, the average radiation level was approximately 10 mr/hr.

Calibration data for the radioactivity detection instruments used in the test are presented in Table IV.

Radiation survey points are shown in Appendix I.

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RADIOACTIVE WASTE DISPOSAL SYSTEM
 PERIODIC RADIATION MONITORING SURVEY
 DLCS 1690204 (T-612075)

Survey instruments
 QTP 749
 Thyac 873

DUQUESNE LIGHT COMPANY
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SHIPPINGPORT ATOMIC POWER STATION

RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY
DLCS 1690204 (T-612075)

TABLE I
Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	Area Surveyed
Avg. Time	1830		1820		0230			
Survey Points	All Readings in mr/hr							-
1	3.0		1.3		1.5			Incinerator area ↓ Drumming area *Drumming operation not in this area on these dates ↓ Passageway ↓ RWD Control Room Area ↓
2	4.0		.35		1.5			
3	Trash							
	300		.35		4.0			
4	3.5		.35		2.0			
5	3.0		.80		1.0			
6	3.0		.90		1.2			
7	3.5		.80		.90			
8	4.0		.90		1.0			
9	0.8		.40		.40			
10	1.4		.40		.60			
11	1.6		.60		.60			
12	1.0		.45		2.0			
13	1.0*		1.0*		5.0			
14	8.5		.10		.35			
15	1.4		.40		.35			
16	0.4		.20		.35			
17	0.2		.06		.11			
18	0.25		.10		.05			
19	0.08		.05		.05			
20	0.05		.02		.06			
21	0.05		.06		.07			
22	0.15		.08		.10			
23	0.8		.90		.90			
24	0.12		.08		.20			
25	0.50		.30		.40			
26	0.40		.40		.90			
27	0.25		.25		.80			
28	0.09		.03		.04			

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	Area Surveyed
Avg. Time	1830		1820		0230			
Survey Points	All Readings in mr/hr							
29	0.04		.03		.04			Passage way to gas stripper
30	0.06		.03		.06			↓
31	0.10		.04		.08			Gas stripper cubicle
32	0.15		.12		.25			↓
33	0.10		.11		.30			Gas stripper vacuum pump cubicle
34	0.30		.19		.10			↓
35	0.15		.12		.30			Gas stripper vacuum pump cubicle
36	0.30		.20		.90			↓
37	0.1		.12		.35			Gas stripper vacuum pump cubicle
38	0.12		.08		.30			↓
39	0.13		.11		.40			Gas stripper vacuum pump cubicle
40	0.5		.10		.11			↓
41	0.2		.05		.09			Gas stripper vacuum pump cubicle
42	0.08		.04		.06			↓
43	0.08		.04		.04			Vent gas compressor area
44	0.17		.10		.09			↓
45	0.11		.07		.09			Vent gas compressor area
46	0.10		.08		.09			↓
47	0.10		.06		.07			Cooler area
48	0.06		.06		.08			↓
49	0.15		.10		.08			Cooler area
50	0.10		.10		.10			↓
51	0.40		.40		.70			Vent Gas Surge Drum Area
52	0.60		.70		1.5			↓
53	0.30		.11		.70			Vent Gas Surge Drum Area
54	0.04		.03		.13			↓
55	0.03		.03		.06			Vent Gas Surge Drum Area
56	0.03		.02		.03			↓
57	0.03		.03		.03			Vent Gas Surge Drum Area

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	Area Surveyed
Avg. Time	1830		1820		0230			
Survey Points	All Readings in mr/hr							
58	0.03		.04		.03			Vent Gas Surge Drum Area
59	0.03		.05		.03			
60	0.04		.03		.04			
61	0.06		.03		.08			
62	0.03		.03		.09			Passageway - Gas Decay Drum
63	0.03		.03		.04			
64	0.02		.03		.04			
65	0.04		.04		.03			
66	0.04		.04		.05			1-D Gas Decay Drum Cubicle
67	0.06		.04		.04			
68	0.06		.03		.05			
69	0.05		.03		.05			
70	0.04		.04		.04			1-C Gas Decay Drum Cubicle
71	0.05		.04		.06			
72	0.05		.04		.04			
73	0.03		.03		.05			
74	0.02		.04		.04			1-B Gas Decay Drum Cubicle
75	0.04		.05		.05			
76	0.02		.04		.04			
77	0.02		.03		.03			
78	0.03		.03		.04			1-A Gas Decay Drum Cubicle
79	0.02		.03		.03			
80	0.02		.04		.03			
81	0.02		.03		.03			
82	0.04		.03		.09			Passage at Ion Exchanger- Sample Rack
83	0.04		.05		.04			Top of stairs to Chem Waste Tank Area

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	
Avg. Time	1830						1115	Area Surveyed
Survey Points	All Readings in mr/hr							
84	0.06						0.08	Utility trench to strainer storage tank.
85	0.08						0.09	
86	0.08						0.11	
87	0.17						0.35	
88	1.00						2.5	Spray and Recycle Tank Area
89	0.45						1.6	
90	1.00						5.0	
91	0.90						2.5	
92	0.05						0.07	Manhole to Effluent Header
93	0.07						0.08	RWD Cooling Tower Area
94	0.07						0.09	
95	0.07						0.06	
96	0.06						0.07	Resin Storage Tank Area
97	0.06						0.07	
98	0.09						0.04	
99	0.10						0.05	
100	0.07						0.05	
101	0.08						0.04	
102	0.13						0.04	
103	0.15						0.06	
104	0.10						0.07	
105	0.15						0.07	
106	0.07						0.04	
107	0.25						0.6	
108	1.3						1.0	

* Thyac No. 718

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	
Avg. Time	1830						1115	Area Surveyed
Survey Points	All Readings in mr/hr							
109	0.6						0.2	Resin Storage Tank Area
110	0.08						0.06	
111	1.6						3.0	
112	1.2						0.50	Utility trench at Resin Storage Tanks
113	0.5						0.40	
114	0.15						0.05	
115	0.3						0.30	Valving Pad - 1A Surge
116	0.3						0.25	
117	0.2						0.06	Utility Trench
118	0.2						0.11	1-A Surge Tank Pad
119	0.25						0.15	
120	0.2						0.10	
121	0.25						0.15	
122	0.40						0.20	1-B Surge Tank Pad
123	0.50						0.60	
124	0.25						0.20	
125	0.25						0.09	
126	0.20						0.11	
127	0.15						0.04	1-C Surge Tank Pad
128	0.10						0.04	
129	0.15						0.07	
130	0.10						0.04	
131	0.20						0.13	
132	0.15						0.06	Utility Trench
133	0.15						0.06	
134	0.10						0.07	

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TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	
Avg. Time	1830						1115	Area Surveyed
Survey Points	All Readings in mr/hr							
135	0.15						0.13	1-D Surge Tank Pad
136	0.20						0.07	↓
137	0.15						0.11	
138	0.10						0.06	
139	0.10						0.07	1-D Valving Pad
140	0.10						0.14	Utility Trench
141	0.15						0.50	1-A Test Tank Area
142	0.23						0.50	↓
143	0.10						0.12	
144	0.25						0.40	Utility Trench
145	0.15						0.14	1-B Test Tank Area
146	0.25						0.50	↓
147	0.40						0.30	
148	0.25						0.60	
149	0.40						1.3	↓
150	0.10						0.06	RWD Ion Exchanger Pad
151	0.10						0.08	↓
152							0.10	
153	0.17						0.05	
154	0.08						0.04	↓
155	0.10						0.08	
156	0.30						0.30	1-B Non Active Tank and 1-B Special Waste Tank
157	0.17						0.18	↓
158	0.05						0.10	
159	0.10						0.13	
160	0.25						0.40	↓
161	0.25						0.30	
162	0.15						0.17	Utility Trench
163	0.15						0.13	↓
164	0.08							

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	Area Surveyed
Avg. Time	1830		1820	0200	1830		1115	
Survey Points	All Readings in mr/hr							
165	0.07						0.10	Entrance RWD
166	0.10						0.13	RWD Control Room
167	0.15						0.30	↓
168	0.15						0.40	1-A Non Active Tank and 1-A Special Waste Tank area
169	0.10						0.14	↓
170	0.15						0.30	
171	0.15						0.40	↓
172	0.15						0.30	
173	0.25						0.70	Utility Trench
174	0.25						0.90	↓
175	0.06		0.08	0.10	0.3			Upper Grating Passageway - 1-A Chem. Waste Tank
176	0.12		0.15	0.13	0.4			↓
177	0.20		0.25	0.60	0.8			Grating Top 1-A Chem. Waste Tank
178	0.19		0.25		0.6			↓
179	0.14		0.22	0.30	0.5			
180	0.18		0.20		0.5			↓
181	0.15		0.15		0.3			Upper Grating Passageway - 1-B Chem. Waste Tank
182		0.14	0.15	0.13	0.2			↓
183		0.30	0.25	0.60	0.3			Grating Top 1-B Chem. Waste Tank
184		0.30	0.25		0.3			↓
185		0.30	0.20	0.30	0.3			
186		0.30	0.20		0.3			↓
187		0.09	0.13	0.30	0.70			Stairway-Lower Level Chem. Waste Tank
188		0.12	0.25		1.5			

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	Area Surveyed
Avg. Time			1820	0200	1830		1115	
Survey Points	All Readings in mr/hr							
189		0.16	0.50		1.3			Lower Level 1-A Chem. Waste Tank Area
190		0.40	0.40	0.3	1.3			↓
191		0.90	4.5	3.0	1.1			Passageway
192		0.14	0.30		1.3			Lower Level 1-B Chem. Waste Tank Area
193		0.08	0.35		1.3			↓
194		0.16	0.15		0.7			*Original Drumming Station Location
195		0.16	0.15		0.3			↓
196		0.40	1.10		0.3			Passageway
197		1.10	1.30	1.00	0.4			Evaporator Area
198		0.30	0.30		0.4			↓
199		9.0*	5.00*		0.2			Pipe Trench - From Aux. Chamber
200		0.12	0.18		0.3			↓
201		0.12	0.17	0.30	0.4			
202		0.50	0.55	0.30	0.6			
203		0.40	0.55		1.0			
204		0.60	0.65		1.0			
205		1.65	1.20	1.00	1.2			
206		1.10	0.65		0.7			
207		0.03					0.04	
208		0.04					0.04	
209		0.03					0.04	
210		0.04					0.03	↓

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	
Avg. Time							1115	Area Surveyed
Survey Points	All Readings in mr/hr							
211		0.03					0.04	Ground Area - Aux. Chamber ↓
212		0.04					0.06	
213		0.06					0.05	
214		0.05					0.03	
215		0.09					0.09	Pipe Trench from BD Boiler Chamber ↓
216		0.08					0.06	
217		0.06					0.07	
218		0.05					0.05	
219		0.09					0.10	Ground Area BD Container to RWD ↓
220		0.07					0.08	
221		0.09					0.08	
222		0.07					0.07	
223		0.08					0.04	↓
224		0.07					0.04	
225		0.10					0.06	
226		0.14					0.09	
227		0.80					1.6	↓
228		0.40					0.60	
229		0.13					0.10	
230		0.05					0.04	
231		0.04					0.04	Pipe Trench 1-A Auxiliary Room ↓
232		0.05					0.04	
233		0.07					0.06	
234		0.07					0.04	
235		0.07					0.06	↓

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PERIODIC RADIATION MONITORING SURVEY
DLCS 1690204 (T-612075)

TABLE I (cont'd)

Radioactive Waste Disposal Area Radiation Survey

Date	2/14/61	2/15/61	2/21/61	3/2/61	4/26/61	4/28/61	4/29/61	
Avg. Time							1115	Area Surveyed
Survey Points	All Readings in mr/hr							
236		0.04					0.06	Ground Area
237		0.03					0.03	↓
238		0.10					0.05	Pipe Trench
239		0.05					0.03	↓
240		0.04					0.03	↓
241		0.04					0.03	↓
242		0.04					0.04	↓
243		0.05					0.04	↓
244		0.04					0.03	↓
245		0.03					0.03	↓
246		0.03					0.03	↓
247		0.02					0.04	↓
248		0.04					0.03	↓
249		0.04					0.04	↓
250		0.04					0.10	↓
251		0.03					0.03	↓
252		0.03					0.03	↓

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TABLE II

Air Sample Record No. 3964

Date - April 12, 1961 Area Waste Disposal Incinerator
 Reason for Sample Incinerator Smoking Badly (See Note below)
 Time On 1410 Air Flow 25 ft³/min.
 Time Off 1420 Air Flow 24 ft³/min.
 Time Counted 1810 4 hr. decay
 Not Performed 24 hr. decay

	Alpha		Beta-Gamma	
Length of Decay	<u>4 hr</u>	<u>24 hr</u>	<u>4 hr</u>	<u>24 hr</u>
Total Count	1030		17	
Background	1068		.2	
Net Count	(background		.15	
Correction Factor	2.34		4.03	
Disintegrations/5 minutes			60.45	
Disintegrations/minute			12.1	
Air Sample Total	245		245	
Air Sample (1/3 of Volume)	81.6		81.6	
D/M./Cu. Ft.	(background		0.15	

Counter No. Anton 234

Note: The following comments were written into the log of events for DLCS 1690204 "Incinerator is smoking badly into the building. If this is contaminated waste, the smoke is spilling out and contaminating the air. Smoke is puffing out of the feeding door and flame can be seen around some of the parts of the incinerator."

DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHIPPINGPORT ATOMIC POWER STATION

RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY
DLCS 1690204 (T-612075)

TABLE III

RWD Radiation Survey

Drumming Operation

Filling Drum (4-17-61)

Operator dosimeter reading before start of drum fill
Time 2124 - 10 mr

Operator dosimeter reading at end of drum fill
Time 2208 - 10 mr
Drum - 23 mr/hr maximum

RWD Radiation Monitoring System Channel 2

Time 2124 - 7 cps

Rolling Drum 4-26-61 (different drum)

Radiation level - before rolling 41 mr/hr at the bottom
after rolling 14 mr/hr at the middle
general level 10 mr/hr

QTT meter -29-56-4095 AEC No. 693

DUQUESNE LIGHT COMPANY
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RADIOACTIVE WASTE DISPOSAL SYSTEM
 PERIODIC RADIATION MONITORING SURVEY
 DLCS 1690204 (T-612075)

TABLE IV

RWD Radiation Survey Instruments
 Calibration Data

Meter	No.	Calibration Date	Calculated/measured mr/hr/mr/hr			
Thyac	876	2-14-61	0.15/0.18	1.5/1.5	15/15	
Thyac	873	2-23-61	0.15/0.18	1.5/1.5	15/15	
Thyac	718	----	Data not available			
Antom	234	----	Meter not calibrated with Std. source			
QT T	749	----	Data not available			
QT T	693	4-20-61	25/24.5	50/50	250/240	500/500
RWD Radiation Monitoring System		11-26-58	Not Available			

DUQUESNE LIGHT COMPANY
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SHIPPINGPORT ATOMIC POWER STATION

RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY,
DLCS 1690204 (T-612075)

DATE _____

WASTE DISPOSAL - TANKS

**DOUGLASS LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHELTONPORT ATOMIC POWER STATION**

**RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY
DLCS 1690204 (T-612075)**

Date: November 2, 1959

WASTE DISPOSAL CHEMICAL WASTE TANKS

DATE _____

DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHIPPINGPORT ATOMIC POWER STATION

RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY
DICS 1690204 (T-612075)

**DUQUESNE LIGHT COMPANY
POWER STATIONS DEPARTMENT
SHEPPINGPORT ATOMIC POWER STATION**

**RADIOACTIVE WASTE DISPOSAL SYSTEM
PERIODIC RADIATION MONITORING SURVEY
DLCS 1690204 (T-612075)**

APPENDIX I

TEST EVALUATION DLCS 1690204

T-612075

RADIOACTIVE WASTE DISPOSAL SYSTEM PERIODIC RADIATION MONITORING SURVEY

Results Prepared By R. Gohas by RZ

Results Reviewed By Roger J. Lawrence

Approved (Duquesne Light Company) George A. Santel Date 10-4-61