

IMPINGEMENT MONITORING PROGRAM

REPORT NO. 10 - JANUARY 1978

SALEM NUCLEAR GENERATING STATION
UNIT NO. 1

DOCKET NO. 50-272
OPERATING LICENSE NO. DPR-70

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PUBLIC SERVICE ELECTRIC AND GAS COMPANY
NEWARK, NEW JERSEY
FEBRUARY 20, 1978

SUMMARY

This is the tenth monthly impingement monitoring program report required by Section 3.1.2.2 of the Environmental Technical Specifications (ETS). The ETS are Appendix B of the Salem Nuclear Generating Station (SNGS) Operating License No. DPR-70. The tabular summaries attached include daily estimates of the number and weight of fish impinged on the Circulating Water System (CWS) traveling screens (Table 2) and the Service Water System (SWS) traveling screens (Table 3). CWS operation is also summarized (Table 1).

The monitoring program at both the CWS and SWS consisted of three 24-hour sampling periods per week. The CWS screens were sampled four times per 24-hour period at approximately six-hour intervals. Samples were collected by diverting approximately three minutes of screen wash water to the counting pool located on the north end of the CWS intake structure. Survival rates were calculated for CWS samples only. SWS screen samples consisted of either one 24-hour or two 12-hour samples per day. These samples consisted of all fish impinged and found in the trash baskets located on the intake structure proper.

MDL:aec

TABLE 1. - START TIME AND DURATION OF IMPINGEMENT SAMPLES AT THE CIRCULATING WATER INTAKE, S.W.G.S. UNIT 1
1 JANUARY THROUGH 31 JANUARY 1978. NUMBER OF PUMPS AND SCREENS IN OPERATION, SCREEN OPERATING MODE
(I= INTERMITTENT, C= CONTINUOUS), WEIGHT (G/3 MIN. SAMPLE) OF DETRITUS, AND WATER TEMPERATURE (C)
ARE INDICATED.

DATE	SAMPLE START TIME	DUR. (MIN)	PUMPS	SCREENS	OPERATING MODE	DETRITUS WEIGHT (G/3 MIN SAMPLE)	WATER TEMPERATURE (C)
01/03/78	1200	3	5	5	C	4,000	1.0
01/03/78	1800	3	6	6	C	800	2.5
01/04/78	0000	3	6	6	C	20,200	2.0
01/04/78	0600	3	6	5	C	4,700	1.5
01/04/78	1200	3	5	5	C	20,000	3.5
01/04/78	1800	3	5	5	C	800	3.0
01/05/78	0000	3	6	5	C	52,000	2.0
01/05/78	0600	3	6	6	C	2,900	2.0
01/05/78	1200	3	6	6	C	38,000	3.0
01/05/78	1800	3	5	5	C	2,300	4.0
01/06/78	0000	3	6	6	C	54,000	3.0
01/06/78	0600	3	6	6	C	4,200	3.0
01/09/78	1200	3	4	4	C	135,000	4.5
01/09/78	1800	3	6	6	C	52,000	2.0
01/10/78	0000	3	6	6	C	8,000	2.0
01/10/78	0600	3	6	6	C	6,100	0.0
01/11/78	1200	3	3	5	C	1,400	2.0
01/11/78	1800	3	2	5	C	500	1.0
01/12/78	0000	3	1	3	C	200	0.4
01/12/78	0600	3	1	3	C	600	0.5
01/12/78	1150	3	1	3	C	600	0.6
01/12/78	1800	3	1	3	C	200	0.6
01/13/78	0000	3	1	1	C	400	0.5
01/13/78	0600	3	1	1	C	400	0.5
01/16/78	1200	3	2	4	C	400	0.5
01/16/78	1800	3	2	3	C	15,500	0.9
01/17/78	0000	3	4	6	C	11,400	0.5
01/17/78	0600	3	4	5	C	900	1.2
01/18/78	1200	3	6	5	C	138,000	1.5
01/18/78	1800	3	5	5	C	6,300	2.1
01/19/78	0000	3	6	6	C	39,000	1.0
01/19/78	0600	3	6	6	C	4,000	1.2
01/19/78	1200	3	5	5	C	63,000	1.4
01/19/78	1800	3	5	6	C	3,600	1.5
01/20/78	0000	3	6	6	C	21,800	2.0
01/20/78	0600	3	6	6	C	10,300	1.4
01/23/78	1200	3	4	5	C	54,000	0.4
01/23/78	1800	3	1	5	C	900	0.9
01/24/78	0000	3	1	5	C	350	1.6
01/27/78	1200	3	3	4	C	1,000	0.7
01/27/78	1800	3	1	3	C	200	0.0
01/28/78	0000	3	1	6	C	11,900	1.1
01/30/78	1200	3	5	5	C	2,100	0.6
01/30/78	1800	3	5	5	C	5,100	1.1
01/31/78	0000	3	5	5	C	1,000	1.1
01/31/78	0300	3	5	5	C	1,900	0.0
01/31/78	0600	3	5		C	6,400	

TABLE 2. - IMPINGEMENT - S.N.G.S. CIRCULATING WATER SYSTEM INTAKE, 1 JANUARY 1987 TO 31 JANUARY 1978.

SAMPLING PERIOD - 01/05/78 1200 THROUGH 01/04/78 0600

SPECIES	N	CF	% SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
D. CEPEDIANUM	4	3	15	10	74	39	4680	7230.6	66.73	95.9	9.5	47.1	87.5	152.5
H. NUCHALIS	4	3	76	0	23	72	8640	13850.8	108.23	170.9	4.5	21.4	72.5	137.5
M. UNDULATUS	4	1	0	100	0	1	120	240.0	.21	.4	1.8	1.8	52.5	52.5
M. AMERICANA	4	2	10	5	84	19	2280	3946.0	11.86	20.6	3.2	9.4	57.5	87.5
P. FLAVESCENS	4	1	0	0	100	1	120	240.0	1.02	2.0	8.5	8.5	77.5	77.5
U. CHUSS	4	1	0	0	100	1	120	240.0	.48	.9	4.0	4.0	87.5	87.5

TOTAL						133	15960		188.93					
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N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

% SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEGG, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/04/78 1200 THROUGH 01/05/78 0600

SPECIES	N	CF	SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
H. NUCHALIS	4	3	45	8	45	59	7080	9285.8	74.87	97.7	3.3	20.6	72.5	127.5
D. CEPEDIANUM	4	4	17	5	77	40	4800	5124.9	176.14	151.2	10.3	626.5	92.5	332.5
A. ROSTRATA	4	1	100	0	0	3	360	720.0	42.06	84.1	24.2	292.1	237.5	512.5
Z. NEBULOSUS	4	1	100	0	0	1	120	240.0	14.22	28.4	118.5	118.5	217.5	217.5
U. CHUSS	4	2	66	33	0	3	360	459.5	1.45	1.9	3.0	5.4	67.5	92.5
M. AMERICANA	4	3	0	100	0	3	360	240.0	1.39	.9	3.0	4.8	62.5	67.5
A. MITCHELLI	4	1	0	100	0	2	240	480.0	.24	.4	1.0	1.0	42.5	42.5
TOTAL						111	13320			310.37				

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEBQ, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/05/78 1200 THROUGH 01/06/78 0600

SPECIES	N	CF	SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
D. CEPEDIANUM	4	4	16	5	77	90	10800	5337.8	214.31	94.2	9.6	96.6	92.5	187.5
M. NUCHALIS	4	3	63	9	27	11	1320	2012.7	14.02	22.2	2.8	18.2	62.5	112.5
U. CRUSS	4	3	50	21	28	14	1680	1859.0	6.25	7.8	1.9	6.5	72.5	102.5
M. AMERICANA	4	2	66	0	33	3	360	459.5	3.66	4.2	5.9	13.5	72.5	92.5
M. UNDULATUS	4	2	0	75	25	4	480	554.2	.39	.4	.3	1.4	32.5	52.5
M. MENIDIA	4	2	0	50	50	2	240	277.1	.16	.1	.7	.7	57.5	57.5
A. AESTIVALIS	4	1	0	0	100	1	120	240.0	.52	1.0	4.4	4.4	77.5	77.5
TOTAL						125	15000		239.31					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
 SALEM NUCLEAR GENERATING STATION UNIT 1
 PSECO, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/09/78 1200 THROUGH 01/10/78 0600

SPECIES	N	CF	% SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GR)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
A. ROSTRATA	4	3	62	12	25	8	960	1036.9	32.97	24.2	.3	64.2	62.5	362.5
T. MACULATUS	4	1	50	50	0	2	240	480.0	.15	.3	.2	1.1	37.5	47.5
P. UMBULATUS	4	2	16	50	33	6	720	1142.6	.36	.6	.2	.8	32.5	57.5
D. CEPEDIANUM	4	4	0	66	33	15	1800	459.5	32.89	25.9	8.3	111.0	87.5	192.5
I. CATUS	4	1	0	50	50	2	240	480.0	.86	1.7	3.4	3.8	72.5	87.5
A. MITCHILLI	4	1	0	100	0	1	120	240.0	.02		.2	.2	42.5	42.5
H. AMERICANA	4	3	0	66	33	3	360	240.0	1.70	1.3	2.4	6.2	72.5	77.5
U. CHUSS	4	1	0	0	100	1	120	240.0	.54	1.0	4.5	4.5	87.5	87.5
H. NUCHALIS	4	3	63	11	25	44	5280	7769.4	77.30	115.5	4.5	27.8	72.5	132.5
I. PUNCTATUS	4	2	50	0	50	2	240	277.1	8.78	13.6	13.1	60.1	107.5	187.5
I. NEBULOSUS	4	1	100	0	0	1	120	240.0	.87	1.7	7.3	7.3	87.5	87.5
U. PYGMAEA	4	1	100	0	0	1	120	240.0	.52	1.0	4.4	4.4	77.5	77.5
F. HETEROCLITUS	4	1	100	0	0	4	480	960.0	1.14	2.2	1.4	5.4	52.5	77.5
M. RENIDIA	4	1	0	100	0	1	120	240.0	.62	1.2	5.2	5.2	92.5	92.5
TOTAL						91	10920		178.72					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

% SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
 SALEM NUCLEAR GENERATING STATION UNIT 1
 PSEB6, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/11/78 1200 THROUGH 01/12/78 0600

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GR)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
H. NUCHALIS	4	4	50	0	50	8	960	960.0	9.77	9.2	6.2	19.0	82.5	117.5
D. CEPEDIANUM	4	4	0	54	45	11	1320	989.5	17.75	11.9	10.1	20.1	87.5	117.5
M. AMERICANA	4	2	50	50	0	2	240	277.1	1.63	2.0	4.7	8.9	72.5	87.5
P. NEVEROCLITUS	4	1	0	100	0	1	120	240.0	.24	.4	2.0	2.0	52.5	52.5
TOTAL						22	2640		29.39					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

 IMPINGEMENT MONITORING PROGRAM
 SALEM NUCLEAR GENERATING STATION UNIT 1
 PSESS, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/12/78 1150 THROUGH 01/13/78 0600

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
D. CEPEDIANUM	4	2	0	66	33	3	360	459.5	18.98	22.9	11.7	96.4	97.5	187.5
H. MUCALIS	4	2	60	0	40	5	600	720.0	9.53	11.3	12.7	18.7	102.5	122.5
TOTAL						8	960		28.51					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
 SALEM NUCLEAR GENERATING STATION UNIT 1
 PSE86, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/16/78 1200 THROUGH 01/17/78 0600

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
M. MUCALIS	4	3	62	2	34	70	8400	13124.8	104.77	160.9	3.4	24.7	7.5	122.5
M. SANATILIS	4	1	100	0	0	2	240	480.0	.84	1.6	3.3	3.7	67.5	72.5
A. AESTIVALIS	4	1	0	100	0	1	120	240.0	.44	.8	3.7	3.7	72.5	72.5
TOTAL						73	8760		106.05					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSERG, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/18/78 1200 THROUGH 01/19/78 0600

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GR)		LENGTH (MM)	
			L	D	B*						MIN.	MAX.	MIN.	MAX.
M. AMERICANA	4	2	33	33	33	3	360	459.5	4.18	6.9	4.7	16.3	72.5	97.5
D. CEPEDIANUM	4	2	0	50	50	2	240	277.1	12.27	18.8	19.5	82.8	112.5	177.5
P. FLAVESCENS	4	2	80	20	0	5	600	720.0	8.73	13.4	4.2	41.0	77.5	157.5
Z. PUNCTATUS	4	1	0	0	100	1	120	240.0	17.18	34.3	143.2	143.2	257.5	257.5
F. HETEROCLITUS	4	1	100	0	0	1	120	240.0	1.47	2.9	12.3	12.3	97.5	97.5
M. NUCHALIS	4	4	53	10	36	69	8280	7663.7	95.30	99.3	2.2	25.5	67.5	137.5
A. ROSTRATA	4	1	100	0	0	2	240	480.0	6.08	12.1	16.2	34.5	172.5	222.5
M. CHRYSOLEUCAS	4	1	0	0	100	1	120	240.0	6.14	12.2	51.2	51.2	157.5	157.5
TOTAL						84	10080		151.35					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; B* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
 SALEM NUCLEAR GENERATING STATION UNIT 1
 PSE26, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/19/78 1200 THROUGH 01/20/78 0600

SPECIES	N	CP	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
M. MUCALIS	4	4	52	4	44	25	3000	2863.2	39.35	39.8	2.8	30.4	67.5	137.5
A. ROSTRATA	4	1	0	0	100	1	120	240.0	7.18	14.3	59.9	59.9	312.5	312.5
M. AMERICANA	4	3	31	15	52	44	5280	5943.7	29.40	31.8	1.8	8.6	52.5	82.5
B. CEPEDIANUM	4	3	14	14	71	7	840	819.7	35.55	55.3	9.5	79.2	82.5	172.5
F. HETEROCLITUS	4	1	0	0	100	1	120	240.0	.48	.9	4.0	4.0	67.5	67.5
M. SAXATILIS	4	2	0	0	100	5	600	720.0	5.00	5.9	3.8	13.9	67.5	102.5
F. MAJALIS	4	1	0	0	100	1	120	240.0	.34	.6	2.9	2.9	62.5	62.5

TOTAL						84	10080		117.30					

N = NUMBER OF 3-MINUTE SAMPLES.

CP = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSESS, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/23/78 1200 THROUGH 01/24/78 0000

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
M. MUCALIS	3	1	50	0	50	2	320	554.2	2.09	3.6	6.1	7.0	87.5	87.5
M. AMERICANA	3	1	0	25	75	4	640	1108.5	4.01	6.9	3.3	10.1	67.5	87.5
B. CEPEDIANUM	3	1	0	0	100	1	160	277.1	12.41	21.5	77.6	77.6	172.5	172.5

TOTAL						7	1120		18.51					
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N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEG, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/27/78 1200 THROUGH 01/27/78 1800

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
M. AMERICANA	2	1	33	33	33	3	720	1018.2	4.86	6.8	2.6	12.4	57.5	87.5
M. MICHALIS	2	1	100	0	0	1	240	339.4	3.60	5.0	15.0	15.0	107.5	107.5
TOTAL						4	960		8.46					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEGG, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/28/78 0000 THROUGH 01/28/78 0000

SPECIES	N	CF	% SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
M. AMERICANA	1	1	0	100	0	3	1440	64316.4	7.48	64369.8	2.5	6.2	82.5	77.5
M. SAXATILIS	1	1	0	100	0	1	480	64316.4	2.30	64316.4	4.8	4.8	77.5	77.5
M. MACHALIS	1	1	0	100	0	2	960	64316.4	11.37	64369.8	8.7	15.0	92.5	117.5
TOTAL						6	2880		21.15					

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

% SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE86, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/30/78 1200 THROUGH 01/30/78 1800

SPECIES	N	CF	X SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
H. MICHALIS	2	2	64	2	34	50	12000	10182.3	134.82	120.7	2.6	22.4	67.5	122.5
H. AMERICANA	2	1	0	0	100	1	240	339.4	1.32	1.8	5.5	5.5	72.5	72.5
I. PUNCTATUS	2	1	0	0	100	1	240	339.4	138.98	196.5	579.1	579.1	342.5	342.5

TOTAL 52 12480 275.12

N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

X SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEB, NEWARK, N.J.

TABLE 2. - (CONTINUED).

SAMPLING PERIOD - 01/31/78 0000 THROUGH 01/31/78 0600

SPECIES	N	CF	% SURVIVAL			TOTAL NUMBER COLLECTED	MEAN ESTIMATED NUMBER/ 24 HOURS	STANDARD DEVIATION	MEAN ESTIMATED WT/24 HRS (KG)	STANDARD DEVIATION	WEIGHT (GM)		LENGTH (MM)	
			L	D	D*						MIN.	MAX.	MIN.	MAX.
I. CATUS	3	1	50	0	50	2	320	554.2	246.76	427.4	553.0	989.3	282.5	347.5
C. CARPIO	3	1	0	0	100	1	160	277.1	224.00	387.9	400.0	400.0	457.5	457.5
M. MICHALIS	3	3	62	0	37	54	8640	2494.1	113.14	40.2	4.1	23.2	72.5	127.5
M. AMERICANA	3	2	33	0	66	12	1920	1920.0	32.92	45.8	3.4	108.5	62.5	177.5
M. SARATILIS	3	1	50	0	50	2	320	554.2	3.54	6.1	6.6	15.6	87.5	107.5

TOTAL						71	11360		620.36					
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N = NUMBER OF 3-MINUTE SAMPLES.

CF = CATCH FREQUENCY (NUMBER OF SAMPLES IN WHICH THE SPECIES APPEARED).

% SURVIVAL: L = LIVE; D = DEAD; D* = DAMAGED.

MEAN ESTIMATED NUMBER PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY MULTIPLYING THE NUMBER OF SPECIMENS IN EACH 3-MINUTE SAMPLE BY 480 TO OBTAIN A 24-HOUR ESTIMATE. THE ESTIMATED NUMBER FOR EACH SAMPLE WAS SUMMED AND DIVIDED BY THE NUMBER OF SAMPLES TO OBTAIN THE MEAN.

MEAN ESTIMATED WEIGHT PER 24 HOURS FOR EACH SPECIES WAS CALCULATED BY THE SAME METHOD AS MEAN ESTIMATED NUMBER.

IMPINGEMENT MONITORING PROGRAM
 SALEM NUCLEAR GENERATING STATION UNIT 1
 PSE86, NEWARK, N.J.

TABLE 3. - IMPINGEMENT - S.N.G.S. SERVICE WATER SYSTEM INTAKE, 1 JANUARY 1978 TO 31 JANUARY 1978.

SAMPLING PERIOD - 01/03/78 0830 TO 01/04/78 0900

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
B. CEPEDIANUM	23	376.90	8.1	48.1	87.5	157.5
M. NUCHALIS	9	96.70	4.2	21.8	77.5	127.5
M. AMERICANA	1	15.50	15.5	15.5	92.5	92.5
A. ROSTRATA	2	268.70	181.5	187.2	457.5	517.5
P. FLAVESCENS	1	43.10	43.1	43.1	152.5	152.5
I. PUNCTATUS	1	122.30	122.3	122.3	267.5	267.5
TOTAL	37	923.20				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE86, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/04/78 0900 TO 01/05/78 0900

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
I. NEBULOSUS	1	289.00	289.0	289.0	292.5	292.5
B. CEPEDIANUM	58	1500.00	10.1	161.5	82.5	217.5
A. ROSTRATA	3	518.00	82.5	308.0	402.5	497.5
P. ANNULARIS	1	37.80	37.8	37.8	127.5	127.5
TOTAL	63	2344.80				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE86, NEWARK, N.J.

TABLE 3 (CONTINUED).

SAMPLING PERIOD - 01/05/78 0830 TO 01/06/78 0830

NUMBER OF PURPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
M. SANATILIS	1	23.60	23.6	23.6	127.5	127.5
P. NIGROMACULATUS	2	38.60	6.9	31.7	77.5	127.5
L. MACROCHIRUS	1	3.00	3.0	3.0	57.5	57.5
A. AESTIVALIS	2	6.20	1.7	4.5	62.5	87.5
M. AMERICANA	4	23.90	3.6	8.8	57.5	87.5
U. CHUSS	6	21.90	2.4	5.5	77.5	92.5
B. CEPEDIANUM	129	2544.00	8.7	111.7	82.5	197.5
A. ROSIRATA	1	241.40	241.4	241.4	492.5	492.5
M. UNDBLATUS	1	1.40	1.4	1.4	42.5	42.5

TOTAL	147	2904.00				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSECO, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/09/78 0730 TO 01/10/78 0730

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
M. AMERICANA	4	24.60	3.4	12.8	67.5	97.5
M. NUCHALIS	4	44.10	3.6	27.1	77.5	132.5
F. HETEROCLITUS	5	43.90	1.2	12.8	52.5	97.5
D. CEPESIANUM	72	1193.90	8.4	66.3	82.5	192.5
L. XANTHURUS	1	9.90	9.9	9.9	82.5	82.5
U. PYGMAEA	1	10.60	10.6	10.6	97.5	97.5
I. NEBULOSUS	1	7.70	7.7	7.7	82.5	82.5
L. MACROCHIRUS	3	29.10	4.2	14.9	57.5	87.5
A. ROSTRATA	1	107.30	107.3	107.3	377.5	377.5

TOTAL	92	1471.10				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEB6, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/11/78 0830 TO 01/12/78 0830

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
E. AMERICANUS	1	13.60	13.6	13.6	122.5	122.5
P. FLAVESCENS	3	93.90	9.1	74.6	87.5	177.5
D. CEPEDIANUM	17	271.00	8.4	35.1	87.5	137.5
M. AMERICANA	8	37.40	4.0	6.5	62.5	72.5
H. MUCHALIS	5	77.20	4.9	20.7	77.5	127.5
C. CARPIO	1	2.50	2.5	2.5	42.5	42.5
A. ROSTRATA	1	109.30	109.3	109.3	452.5	452.5
L. GIBBOSUS	1	10.60	10.6	10.6	82.5	82.5
TOTAL	37	615.50				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE&G, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/12/78 0830 TO 01/13/78 0830

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
P. FLAVESCENS	4	61.10	8.2	20.3	87.5	117.5
D. CEPEDIANUM	18	652.30	9.9	147.1	92.5	207.5
M. NUCHALIS	13	168.40	2.0	26.5	57.5	127.5
M. AMERICANA	14	85.50	3.9	11.6	57.5	92.5
C. CARPIO	1	10.90	10.9	10.9	82.5	82.5
A. ROSTRATA	1	30.00	30.0	30.0	257.5	257.5
F. HETEROCALYTUS	1	7.00	7.0	7.0	77.5	77.5

TOTAL	52	1015.20				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE86, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/16/78 0830 TO 01/17/78 0830

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
D. CEPEDIANUM	13	464.40	15.0	111.3	102.5	197.5
H. NUCHALIS	44	562.40	3.4	24.9	72.5	127.5
P. FLAVESCENS	4	62.90	3.1	48.2	72.5	157.5
H. AMERICANA	3	14.30	4.5	7.2	62.5	72.5
F. METEROCLITUS	1	4.50	4.5	4.5	77.5	77.5

TOTAL	65	1108.50				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE86, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/18/78 2030 TO 01/19/78 0830

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
M. NUCHALIS	13	53.50	3.8	19.6	72.5	127.5
D. CEPEDIANUM	3	111.90	11.0	69.6	92.5	167.5
M. AMERICANA	2	12.50	6.0	6.5	72.5	77.5
I. PUNCTATUS	1	44.60	44.6	44.6	167.5	167.5
P. FLAVESCENS	1	5.40	5.4	5.4	82.5	82.5
P. ANNULARIS	1	3.40	3.4	3.4	62.5	62.5
F. RAJALIS	1	2.50	2.5	2.5	62.5	62.5
TOTAL	22	233.80				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEB, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/19/78 0830 TO 01/20/78 0830

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
D. CEPEDIANUM	8	361.80	17.2	97.4	107.5	197.5
H. NUHALIS	15	154.10	4.3	20.7	82.5	122.5
M. AMERICANA	11	53.10	2.8	6.8	57.5	77.5
P. FLAVESCENS	4	33.50	6.6	14.9	82.5	107.5
I. NEBULOSUS	1	3.40	3.4	3.4	67.5	67.5
M. SAXATILIS	1	3.20	3.2	3.2	72.5	72.5
A. ROSTRATA	1	36.90	36.9	36.9	302.5	302.5
TOTAL	41	646.00				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEB6, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/20/78 0830 TO 01/20/78 2030

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
M. AMERICANA	83	586.90	2.3	12.9	57.5	107.5
M. MUCALIS	23	165.70	1.8	20.0	57.5	132.5
B. CEPEDIANUM	13	373.40	9.1	58.3	92.5	127.5
M. BILINEARIS	1	2.40	2.4	2.4	72.5	72.5
TOTAL	120	1128.40				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE&G, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/23/78 0730 TO 01/24/78 0830

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
P. FLAVESCENS	2	39.80	7.5	32.3	87.5	137.5
H. MUCALIS	33	345.90	1.5	19.8	47.5	127.5
M. SAXATILIS	1	5.20	5.2	5.2	77.5	77.5
B. CEPEDIANUM	3	93.30	20.8	48.7	122.5	152.5
M. AMERICANA	7	36.70	2.7	10.4	57.5	87.5

TOTAL	46	520.90				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSEG, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/28/78 0730 TO 01/29/78 0730

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
D. CEPEDIANUM	3	170.50	22.6	79.2	127.5	167.5
M. NUCHALIS	3	56.00	15.2	25.2	112.5	127.5
M. AMERICANA	2	12.40	6.2	6.2	77.5	77.5
P. FLAVESCENS	3	27.40	5.5	10.7	77.5	97.5

TOTAL	11	266.30				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSERG, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/27/78 0730 TO 01/28/78 0730

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
M. NUHALIS	7	104.00	2.3	21.5	72.5	127.5
M. AMERICANA	5	102.90	5.1	78.2	72.5	157.5
D. CEPEDIANUM	2	155.60	50.2	105.4	122.5	192.5
P. FLAVESCENS	4	83.20	3.8	42.3	72.5	157.5
I. NEBULOSUS	1	200.00	200.0	200.0	227.5	227.5

TOTAL	19	645.70				
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IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE&G, NEWARK, N.J.

TABLE 3. - (CONTINUED).

SAMPLING PERIOD - 01/30/78 0730 TO 01/31/78 0730

NUMBER OF PUMPS 3 - 3

SPECIES	NUMBER	WT. (GM)	WEIGHT		LENGTH	
			MIN.	MAX.	MIN.	MAX.
M. MICHALIS	29	329.90	4.4	21.9	67.5	132.5
M. AMERICANA	8	90.00	2.4	61.5	57.5	162.5
TOTAL	37	419.90				

IMPINGEMENT MONITORING PROGRAM
SALEM NUCLEAR GENERATING STATION UNIT 1
PSE86, NEWARK, N.J.

ABAKPI PRINTS