



ARKANSAS POWER & LIGHT COMPANY  
POST OFFICE BOX 551 LITTLE ROCK, ARKANSAS 72203 (501) 371-4000

November 28, 1978

1-118-11

Director of Nuclear Reactor Regulation  
ATTN: Mr. R. W. Reid, Chief  
Operating Reactor Branch #4  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Subject: Arkansas Nuclear One - Unit 1  
Docket No. 50-313  
License No. DPP-51  
Intake Impingement Data  
(File: 0520.2)

Gentlemen:

Enclosed are the results of impingement monitoring at the intake of Arkansas Nuclear One - Unit 1 during the month of October 1978. This is being submitted per Environmental Technical Specification 4.1.2.a(2).

Very truly yours,

Daniel H. Williams  
Manager, Licensing

DHW:REI:jaj

Enclosures: (3) Copies of report  
(1) Set of computer cards

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A007  
5/11  
CARDS ADVANCED  
DIRECTLY TO  
BRANCH  
P

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-20-78  
INCLUSIVE TIME  
OF SAMPLE: 24 HRS  
INLET WATERPROX  
TEMPERATURE: 65 F  
NUMBER OF SCREENS  
WASHED: 8  
NUMBER OF CIRCULATING  
PUMPS IN OPERATION: 4  
24 HOUR TOTAL  
SAMPLE COUNT: 970  
24 HOUR TOTAL \*  
SAMPLE WEIGHT: 31.1 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	%	MODAL WEIGHT(GR)	#	%	
GLAZARD SHAD	17.94	815.	176	50 TO 120	24	73*	5 TO 10	24	73*
FRESHWATER DRUM	8.88	83.	296	120 TO 150	5	19*	15 TO 20	4	15*
WHITE BASS	2.63	18.	340	120 TO 150	6	44*	15 TO 20	5	28*
THUNDERBOLT SHAD	0.09	23.	85	30 TO 60	14	61*	0 TO 5	22	96*
WHITE CRAPPIE	0.99	7.	285	90 TO 120	2	29*	5 TO 10	2	29*
BLUEGILL SUNFISH	0.03	2.	77	60 TO 90	2	100*	5 TO 10	1	100*
CHANNEL CATFISH	0.38	10.	224	90 TO 120	4	40*	0 TO 5	4	40*
BLUE CATFISH	0.04	3.	105	90 TO 120	2	67*	5 TO 10	3	100*
MISSISSIPPI SILVERSIDE	0.10	9.	109	90 TO 120	6	67*	0 TO 5	7	78*

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-24-78  
INCLUSIVE TIME OF SAMPLE: 24 HRS  
INLET WATERBOX TEMPERATURE: 65 F  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
24 HOUR TOTAL SAMPLE WEIGHT: 68.9 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	# SCREENS WASHED: R	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	24 HOUR TOTAL SAMPLE COUNT	MODAL WEIGHT (GR)	#	%	
Gizzard SHAD	48.19		2602	206	90 TO 120	43	84%	5 TO 10	45	88%
THORFIN SHAD	1.07		206	92	60 TO 90	15	56%	0 TO 5	24	89%
WHITE BASS	8.50		45	367	90 TO 120	10	38%	10 TO 15	7	27%
CHANNEL CATFISH	0.50		6	262	60 TO 90	1	17%	0 TO 5	1	17%
BLUE CATFISH	2.01		9	470	60 TO 90	4	44%	0 TO 5	3	33%
WHITE CRAPPIE	1.45		5	350	90 TO 120	3	60%	5 TO 10	3	60%
FLATHEAD CATFISH	0.06		2	120	90 TO 120	2	100%	10 TO 15	2	100%
STRIPE BASS	0.01		1	82	60 TO 90	1	100%	5 TO 10	1	100%
BUFFGILL SUNFISH	0.04		2	89	60 TO 90	2	100%	0 TO 5	1	50%
CHESTNUT LAMPREY	0.03		1	216	210 TO 240	1	100%	10 TO 15	1	100%
MISSISSIPPI SILVERSHINE	0.13		10	104	90 TO 120	8	80%	5 TO 10	8	80%
GREEN SUNFISH	0.01		1	56	30 TO 60	1	100%	0 TO 5	1	100%
EMERALD SHINER	0.01		1	70	60 TO 90	1	100%	0 TO 5	1	100%

CONTINUED ON NEXT PAGE:

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-24-78 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL			MODAL		
				LENGTH (MM)	#	%	WEIGHT (GR)	#	%
FRESHWATER DRUM	6.88	49.	344	150 TO 180	8	31%	25 TO 30	6	23%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

PUN DATE: 11/27/78

SAMPLE TAKEN: 10-25-78  
INCLUSIVE TIME OF SAMPLE: 24 HRS  
INLET WATERBOX TEMPERATURE: 65 F  
# SCREENS WASHED: 8  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
24 HOUR TOTAL SAMPLE COUNT: 2333  
24 HOUR TOTAL SAMPLE WEIGHT: 64.9 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
Gizzard SHAD	40.56	1947.	160	90 TO 120	28	62%	5 TO 10	33	73%
THORFIN SHAD	1.06	204.	100	60 TO 90	13	48%	0 TO 5	25	93%
FRESHWATER DRUM	9.21	80.	330	150 TO 180	6	23%	5 TO 10	3	12%
WHITE BASS	8.50	56.	355	90 TO 120	10	38%	10 TO 15	6	23%
CHANNEL CATFISH	2.63	10.	397	60 TO 90	2	20%	0 TO 5	3	30%
BLUE CATFISH	1.67	11.	346	90 TO 120	4	36%	5 TO 10	5	45%
WHITE CRAPPIE	0.70	7.	225	150 TO 180	3	43%	35 TO 40	3	43%
MISSISSIPPI SILVERSIDE	0.15	16.	105	90 TO 120	13	61%	0 TO 5	14	68%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-27-78  
INCLUSIVE TIME  
OF SAMPLE: 24 HRS  
INLET WATERBOX TEMPERATURE: 64 F  
NUMBER OF SCREENS WASHED: 8  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
24 HOUR TOTAL SAMPLE COUNT: 1205  
24 HOUR TOTAL SAMPLE WEIGHT: 40.0 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	MODAL WEIGHT (GR)	#
Gizzard Shad	20.13	756.	223	90 TO 120	24	5 TO 10	24 73%
Threadfin Shad	0.88	203.	77	60 TO 90	17	0 TO 5	27 63%
Freshwater Drum	6.25	110.	246	60 TO 90	7	0 TO 5	8 27%
White Bass	10.00	91.	347	120 TO 150	11	10 TO 15	5 41%
White Crappie	1.70	8.	325	90 TO 120	3	5 TO 10	5 38%
Channel Catfish	0.24	10.	188	60 TO 90	5	0 TO 5	5 50%
Blue Catfish	0.61	6.	316	60 TO 90	2	5 TO 10	3 33%
Bluegill Sunfish	0.01	3.	46	30 TO 60	3	0 TO 5	3 100%
Mississippi Silverside	0.17	15.	163	90 TO 120	14	0 TO 5	10 93%
Brook Silverside	0.01	1.	72	60 TO 90	1	0 TO 5	1 100%
Emerald Shiner	0.01	1.	72	60 TO 90	1	0 TO 5	1 100%
Golden Shiner	0.01	1.	70	60 TO 90	1	0 TO 5	1 100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DERRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-31-78  
INCLUSIVE TIME  
OF SAMPLE: 24 HRS  
INLET WATERBOX  
TEMPERATURE: 64 F  
NUMBER OF CIRCULATING  
PUMPS IN OPERATION: 4  
SAMPLE COUNT: 798  
24 HOUR TOTAL  
SAMPLE WEIGHT: 37.1 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	%	MODAL WEIGHT(GR)	#	%
GITTAPO SHAD	11.44	467.	195	90 TO 120	20	67%	5 TO 10	20	67%
THOFAIDIN SHAD	0.50	100.	88	30 TO 60	14	54%	0 TO 5	25	96%
FRESHWATER DRUM	9.63	81.	272	150 TO 180	8	31%	0 TO 5	3	12%
WHITE BASS	16.44	110.	322	90 TO 120	8	31%	10 TO 15	5	19%
CHANNEL CATFISH	0.12	5.	165	60 TO 90	4	80%	0 TO 5	3	60%
WHITE CRAPPIE	0.57	6.	267	90 TO 120	2	33%	10 TO 15	2	33%
LONGEAR SUNFISH	0.14	2.	142	90 TO 120	1	50%	15 TO 20	1	50%
HAUGGILL SUNFISH	0.21	2.	163	30 TO 60	1	50%	0 TO 5	1	50%
MISSISSIPPI SILVERSIDE	0.08	7.	100	90 TO 120	5	71%	0 TO 5	5	71%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-03-78

INLET WATERBOX TEMPERATURE: 76 F

# SCREENS WASHED: 8

NUMBER OF CIRCULATING PUMPS IN OPERATION: 4

24 HOUR TOTAL SAMPLE COUNT: 162

24 HOUR TOTAL SAMPLE WEIGHT: 21.6 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	MODAL WEIGHT (GR)	#	%
FRESHWATER DRUM	6.38	87	282	60 TO 90	0 TO 5	9	35%
GILTBARK SHAD	2.56	54	202	120 TO 150	5 TO 10	10	38%
WHITE BASS	5.31	14	355	120 TO 150	10 TO 15	5	36%
BULLGILL SUNFISH	0.75	6	184	120 TO 150	60 TO 65	2	33%
WHITE CRAPPIE	1.14	2	270	150 TO 180	205 TO 210	1	50%
BUFF CATFISH	1.56	4	393	90 TO 120	5 TO 10	1	25%
CHANNEL CATFISH	0.41	7	238	90 TO 120	5 TO 10	2	29%
MISSISSIPPI SILVERSIDE	0.33	5	90	60 TO 90	0 TO 5	5	100%
SMALL MOUTH BUFFALO	2.44	1	350	360 TO 390	1105 TO 1110	1	100%
THUNDERFIN SHAD	0.01	2	70	60 TO 90	0 TO 5	2	100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.



ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-04-78  
INCLUSIVE TIME: 24 HRS  
TEMPERATURE: 74 F  
INLET WATERBOX: 2.88  
# SCREENS WASHED: 8  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
24 HOUR TOTAL SAMPLE WEIGHT: 14.9 LBS  
SPECIES 24 HR TOTAL WEIGHT (LBS): 2.88  
SPECIES NAME: Gizzard Shad  
SPECIES 24 HR TOTAL COUNT: 61  
SPECIES NAME: Freshwater Drum  
SPECIES 24 HR TOTAL COUNT: 196  
SPECIES NAME: White Bass  
SPECIES 24 HR TOTAL COUNT: 6  
SPECIES NAME: Threadfin Shad  
SPECIES 24 HR TOTAL COUNT: 5  
SPECIES NAME: White Crappie  
SPECIES 24 HR TOTAL COUNT: 4  
SPECIES NAME: Bluegill Sunfish  
SPECIES 24 HR TOTAL COUNT: 1  
SPECIES NAME: Mississippi Silvereye  
SPECIES 24 HR TOTAL COUNT: 5  
SPECIES NAME: Channel Catfish  
SPECIES 24 HR TOTAL COUNT: 12  
SPECIES NAME: Blue Catfish  
SPECIES 24 HR TOTAL COUNT: 2

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	24 HOUR TOTAL SAMPLE COUNT	24 HOUR TOTAL SAMPLE WEIGHT	MODAL WEIGHT (GR)	#	%
Gizzard Shad	2.88	61	267	90 TO 120	14	54%	5 TO 10	9	35%
Freshwater Drum	4.13	196	337	60 TO 90	15	56%	0 TO 5	14	52%
White Bass	1.55	6	324	90 TO 120	2	33%	10 TO 15	2	33%
Threadfin Shad	0.03	5	83	60 TO 90	4	80%	0 TO 5	5	100%
White Crappie	1.34	4	290	60 TO 90	1	25%	5 TO 10	1	25%
Bluegill Sunfish	0.07	1	125	120 TO 150	1	100%	30 TO 35	1	100%
Mississippi Silvereye	0.04	5	103	60 TO 90	3	60%		4	80%
Channel Catfish	0.49	12	212	60 TO 90	4	33%	5	5	42%
Blue Catfish	0.42	2	253	210 TO 240	1	50%	75 TO 80	1	50%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

PUN DATE: 11/27/78

SAMPLE TAKEN: 10-06-78

INCLUSIVE TIME

INLET WATERBOX

TEMP. ATURE: 72 F

# SCREENS

WASHED: 8

NUMBER OF CIRCULATING PUMPS IN OPERATION: 4

24 HOUR TOTAL

SAMPLE WEIGHT: 234

18.3 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	%	MODAL WEIGHT(GR)	#	%
FRESHWATER DRUM	6.64	110.	295	60 TO 90	12	44%	0 TO 5	12	44%
GITTAPO SHAD	3.50	75.	234	90 TO 120	14	54%	5 TO 10	9	35%
WHITE BASS	6.54	12.	355	330 TO 360	4	33%	505 TO 510	2	17%
THREEDFIN SHAD	0.04	14.	77	30 TO 60	11	79%	0 TO 5	14	100%
LARGEMO SUNFISH	0.22	2.	140	90 TO 120	1	50%	25 TO 30	1	50%
HELBELL SUNFISH	0.03	3.	84	30 TO 60	2	67%	0 TO 5	2	67%
WHITE CROPPIE	0.02	1.	102	90 TO 120	1	100%	5 TO 10	1	100%
CHANNEL CATFISH	1.19	12.	242	60 TO 90	3	25%	0 TO 5	3	25%
BLUE CATFISH	0.07	1.	175	150 TO 180	1	100%	30 TO 35	1	100%
MISSISSIPPI SILVERSIDE	0.02	3.	45	60 TO 90	3	100%	0 TO 5	3	100%
EMERALD SHINER	0.01	1.	60	30 TO 60	1	100%	0 TO 5	1	100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: .1/27/78

SAMPLE TAKEN: 10-10-78  
INCLUSIVE TIME OF SAMPLE: 24 HRS  
INLET WATERBOX TEMPERATURE: 69 F  
# SCREENS WASHED: 8  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
24 HOUR TOTAL \*  
SAMPLE COUNT: 410  
SAMPLE WEIGHT: 17.4 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	%	MODAL WEIGHT(G)	#	%
FRESHWATER DRUM	7.25	134.	339	60 TO 90	9	33%	0 TO 5	7	26%
BITWARD SHAD	4.88	156.	205	90 TO 120	16	59%	5 TO 10	15	56%
WHITE BASS	0.01	14.	320	90 TO 120	6	43%	10 TO 15	5	36%
THREADFIN SHAD	0.16	45.	69	30 TO 60	20	77%	0 TO 5	26	100%
STRIPE BASS	0.04	2.	103	90 TO 120	2	100%	5 TO 10	2	100%
WHITE CRAPPIE	0.22	4.	144	90 TO 120	3	75%	10 TO 15	3	75%
BLUGGILL SUNFISH	0.21	19.	147	30 TO 60	16	84%	0 TO 5	17	89%
BLUE CATFISH	0.89	7.	339	90 TO 120	3	43%	5 TO 10	3	43%
CHANNEL CATFISH	0.69	17.	145	90 TO 120	6	35%	5 TO 10	5	29%
EUROPEAN CARP	0.65	1.	350	330 TO 360	1	100%	290 TO 295	1	100%
MISSISSIPPI SILVERSIDE	0.09	9.	100	90 TO 120	6	67%	0 TO 5	8	89%
EMERALD SHINER	0.01	1.	75	60 TO 90	1	100%	0 TO 5	1	100%
BLACK BULLHEAD	0.14	1.	222	210 TO 240	1	100%	60 TO 65	1	100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAG#N: 10-11-78  
INCLUSIVE TIME  
OF SAMPLE: 24 HRS  
INLET WATERBOX TEMPERATURE: 69 F  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
SPECIES 24 HR TOTAL COUNT  
SPECIES 24 HR TOTAL WEIGHT (LBS)  
SPECIES NAME  
FRESHWATER DRUM  
Gizzard SHAD  
WHITE BASS  
TRESPONIN SHAD  
WHITE CRAPPIE  
BLUEGILL SUNFISH  
CHANNEL CATFISH  
HOP CATFISH  
MISSISSIPPI SILVERSIDE  
EMERALD SHINER  
STRIPED BASS

24 HOUR TOTAL \*  
SAMPLE WEIGHT: 15.1 LBS

24 HOUR TOTAL  
SAMPLE COUNT: 249

SPECIES NAME	SPECIES 24 HR TOTAL COUNT	SPECIES 24 HR TOTAL WEIGHT (LBS)	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
FRESHWATER DRUM	83	5.75	317	60 TO 90	11	42%	0 TO 5	8	31%
Gizzard SHAD	22	3.00	210	90 TO 120	12	46%	5 TO 10	13	50%
WHITE BASS	7	2.24	359	150 TO 180	3	43%	20 TO 25	1	14%
TRESPONIN SHAD	34	0.14	72	30 TO 60	21	81%	0 TO 5	26	100%
WHITE CRAPPIE	6	1.86	310	90 TO 120	2	33%	5 TO 10	2	33%
BLUEGILL SUNFISH	5	0.25	175	30 TO 60	3	60%	0 TO 5	3	60%
CHANNEL CATFISH	12	0.88	250	60 TO 90	4	33%	0 TO 5	4	33%
HOP CATFISH	6	0.93	310	90 TO 120	3	50%	10 TO 15	2	33%
MISSISSIPPI SILVERSIDE	2	0.03	100	90 TO 120	2	100%	5 TO 10	2	100%
EMERALD SHINER	1	0.01	75	60 TO 90	1	100%	0 TO 5	1	100%
STRIPED BASS	1	0.02	100	90 TO 120	1	100%	5 TO 10	1	100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-13-79  
INCLUSIVE TIME OF SAMPLE: 24 HRS  
INLET WATERBOX TEMPERATURE: 70 F  
NUMBER OF CIRCULATING PUMPS IN OPERATION: 4  
24 HOUR TOTAL SAMPLE COUNT: 374  
24 HOUR TOTAL SAMPLE WEIGHT: 14.6 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	NUMBER OF CIRCULATING PUMPS IN OPERATION	24 HOUR TOTAL SAMPLE COUNT	MODAL WEIGHT (GR)	#	%
FRESHWATER DRUM	5.00	37.	328	180 TO 210	4	7	5 TO 10	3	12%
GILTBIRD SHAD	1.69	64.	170	90 TO 120	4	15	5 TO 10	18	69%
THREADFIN SHAD	1.13	244.	92	60 TO 90	4	19	0 TO 5	25	89%
WHITE BASS	4.30	9.	346	210 TO 240	4	3	480 TO 485	2	25%
CHANNEL CATFISH	0.35	6.	198	180 TO 210	4	3	0 TO 5	1	17%
BLUE CATFISH	2.27	5.	377	300 TO 330	4	2	5 TO 10	1	20%
WHITE CRAPPIE	0.09	4.	267	120 TO 150	4	1	25 TO 30	1	25%
BLUEGILL SUNFISH	0.08	4.	121	30 TO 60	4	3	0 TO 5	3	75%
MISSISSIPPI SILVERSIDE	0.03	2.	110	90 TO 120	4	2	5 TO 10	2	100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: INCLUSIVE TIME OF SAMPLE: 24 HRS	10-17-78	SPECIES 24 HR TOTAL WEIGHT(LRS)	# SCREENS WASHED: 4	NUMBER OF CIRCULATING PUMPS IN OPERATION: 4	24 HOUR TOTAL SAMPLE COUNT:	24 HOUR TOTAL ° SAMPLE WEIGHT: 61.5 LRS			
SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LRS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	MODAL WEIGHT(GR) #	#		
LETTARD SHAD	45.25	2299.	190	90 TO 120	41	85%	5 TO 10	39	81%
FRESHWATER DRUM	8.75	86.	312	150 TO 180	5	19%	0 TO 5	3	12%
WHITE BASS	4.23	12.	362	120 TO 150	5	42%	15 TO 20	4	33%
THORADIN SHAD	0.15	37.	75	30 TO 60	17	65%	0 TO 5	26	100%
BLUEGILL SUNFISH	0.05	3.	84	60 TO 90	2	67%	0 TO 5	1	33%
GREY SUNFISH	0.05	1.	115	90 TO 120	1	100%	20 TO 25	1	100%
WHITE CRAPPIE	1.63	11.	261	180 TO 210	3	27%	45 TO 50	2	18%
CHANNEL CATFISH	0.67	13.	237	90 TO 120	4	31%	0 TO 5	3	23%
BLUF CATFISH	0.60	5.	259	60 TO 90	2	40%	0 TO 5	2	40%
FLATHEAD CATFISH	0.02	1.	85	60 TO 90	1	100%	5 TO 10	1	100%
MISSISSIPPI SILVERSIDE	0.09	9.	102	90 TO 120	7	88%	0 TO 5	6	75%
EMERALD SHINER	0.01	1.	72	60 TO 90	1	100%	0 TO 5	1	100%
GOLDEN SHINER	0.01	1.	77	60 TO 90	1	100%	0 TO 5	1	100%

° TOTAL SAMPLE WT. INCLUDES 0.0 LRS OF DERRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY  
AND SCREEN MONITORING

RUN DATE: 11/27/78

SAMPLE TAKEN: 10-1R-78

INLET WATERBOX TEMPERATURE: 66 F # SCREENS WASHED: 7 NUMBER OF CIRCULATING PUMPS IN OPERATION: 4 SAMPLE COUNT: 2183 24 HOUR TOTAL \* SAMPLE WEIGHT: 51.7 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
GIZZARD SHAD	38.06	1941.	212	90 TO 120	42	93%	5 TO 10	42	93%
FRESHWATER DRUM	6.06	64.	290	150 TO 180	8	31%	5 TO 10	5	19%
WHITE BASS	4.54	10.	345	300 TO 330	3	30%	15 TO 20	2	20%
THREADFIN SHAD	0.66	141.	87	60 TO 90	14	52%	0 TO 5	26	96%
WHITE CRAPPIE	1.21	2.	324	60 TO 90	1	50%	5 TO 10	1	50%
BLOFGILL SUNFISH	0.15	2.	157	30 TO 60	1	50%	0 TO 5	1	50%
BLUE CATFISH	0.78	5.	352	60 TO 90	3	60%	0 TO 5	3	60%
CHANNEL CATFISH	0.03	2.	102	60 TO 90	1	50%	0 TO 5	1	50%
MISSISSIPPI SILVERSIDE	0.17	12.	107	90 TO 120	11	92%	5 TO 10	9	75%
EMERALD SHINER	0.01	2.	69	60 TO 90	2	100%	0 TO 5	2	100%
GOLDEN SHINER	0.01	1.	77	60 TO 90	1	100%	0 TO 5	1	100%
LONGEAR SUNFISH	0.01	1.	41	30 TO 60	1	100%	0 TO 5	1	100%

\* TOTAL SAMPLE WT. INCLUDES 0.0 LBS OF DEBRIS ACCUMULATION.