



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

January 26, 1979

1-019-13

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. DPR-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 December 1978. This is being submitted per Environmental Technical Specification 4.1.2.a(2).

Very truly yours,

Daniel H. Williams
Manager, Licensing

DHW:REI:tw

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

REGULATORY DOCKET FILE COPY

7901300118

MEMBER MIDDLE SOUTH UTILITIES SYSTEM

A007
S/1 set
COMPUTER
CARDS
Sent
DIRECTLY
TO ORB #4 BC

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-11-78

INCLUSIVE TIME

INLET WATERBOX

SCREENS

NUMBER OF CIRCULATING

24 HOUR TOTAL

24 HOUR TOTAL *

OF SAMPLE: 24 HRS

TEMPERATURE: 52 F

WASHED: 8

PUMPS IN OPERATION: 4

SAMPLE COUNT: 5993

SAMPLE WEIGHT: 129.9 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
GIFFARD SHAD	119.50	5617.	198	90 TO 120	71	88%	5 TO 10	66	81%
FRESHWATER DRUM	5.19	49.	270	210 TO 240	7	27%	0 TO 5	4	15%
WHITE BASS	0.34	13.	145	90 TO 120	9	69%	10 TO 15	7	54%
STRIPED BASS	0.06	2.	123	90 TO 120	1	50%	5 TO 10	1	50%
BLACK CRAPPIE	0.05	1.	157	150 TO 180	1	100%	20 TO 25	1	100%
WHITE CRAPPIE	0.04	2.	101	90 TO 120	2	100%	5 TO 10	2	100%
BLUEGILL SUNFISH	0.10	3.	136	30 TO 60	2	67%	0 TO 5	2	67%
LONGEAR SUNFISH	0.02	1.	85	60 TO 90	1	100%	10 TO 15	1	100%
GREEN SUNFISH	0.02	1.	75	60 TO 90	1	100%	5 TO 10	1	100%
CENTRAL CATFISH	0.43	21.	385	60 TO 90	14	67%	0 TO 5	16	76%
BLUE CATFISH	0.97	28.	364	90 TO 120	13	46%	0 TO 5	13	46%
MISSISSIPPI SILVERSIDE	0.24	22.	112	90 TO 120	21	95%	0 TO 5	12	55%
BROOK SILVERSIDE	0.02	5.	89	60 TO 90	5	100%	0 TO 5	5	100%

CONTINUED ON NEXT PAGE:

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-01-78 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)		#	%	MODAL WEIGHT(GR)		#	%
WIVEN CARPSICKER	1.25	1.	380	360 TO	390	1	100%	565 TO	570	1	100%
GOLDEN SHINER	0.03	2.	100	60 TO	90	1	50%	0 TO	5	1	50%
HEADFIN SHAD	1.06	224.	107	30 TO	60	13	48%	0 TO	5	26	96%
ORANGESPOTTED SUNFISH	0.02	1.	72	60 TO	90	1	100%	5 TO	10	1	100%

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

SAMPLE TAKEN: 12-05-78		INLET WATERBOX		# SCREENS WASHED: H	NUMBER OF CIRCULATING PUMPS IN OPERATION: 4		24 HOUR TOTAL		24 HOUR TOTAL *	
INCLUSIVE TIME OF SAMPLE: 124 HRS		TEMPERATURE: 50 F			SAMPLE COUNT:		5859		SAMPLE WEIGHT: 119.4 LBS	
SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (LBS)	#	%	
GLAZED SHAD	106.64	4654	232	90 TO 120	60	83%	5 TO 10	61	85%	
FRESHWATER DRUM	2.14	27	355	90 TO 120	7	26%	0 TO 5	6	22%	
W. HASS	3.84	12	393	90 TO 120	4	33%	10 TO 15	5	42%	
TRAILER SHAD	4.41	1015	74	30 TO 60	21	60%	0 TO 5	35	100%	
MISSISSIPPI SILVERSID	1.19	97	118	90 TO 120	26	100%	0 TO 5	13	50%	
WOODS SILVERSID	0.06	1	82	60 TO 90	1	100%	0 TO 5	1	100%	
BLUE CATFISH	0.31	32	122	60 TO 90	21	81%	0 TO 5	22	85%	
CAMPBELL CATFISH	0.05	4	85	60 TO 90	8	100%	0 TO 5	8	100%	
FLATHEAD CATFISH	0.04	1	182	180 TO 210	1	100%	30 TO 35	1	100%	
W. CRAPPIE	0.01	1	80	60 TO 90	1	100%	5 TO 19	1	100%	
GOFF'S SOFTFISH	0.15	2	160	30 TO 60	1	50%	0 TO 5	1	50%	
STRIPED HASS	0.04	3	141	90 TO 120	2	67%	5 TO 10	2	67%	
GOLDEN SILVER	0.01	1	91	90 TO 120	1	100%	0 TO 5	1	100%	

CONTINUED ON NEXT PAGE:

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE T45F4: 12-05-78 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)			MODAL WEIGHT(GR)				
				60 TO	90	#	%	5 TO	10	#	%
RIVER SHINER	0.01	1.	90	60 TO	90	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: 01/24/79

SAMPLE TAKEN: 12-00-74		INLET WATERWORK		NUMBER OF CIRCULATING		24 HOUR TOTAL		24 HOUR TOTAL					
INCLUSIVE TIME		TEMPERATURE: 50 F		PUMPS IN OPERATION: 4		SAMPLE COUNT: 5785		SAMPLE WEIGHT: 216.1 LBS					
SPECIES NAME		SPECIES 24 HR TOTAL WEIGHT (LBS)		SPECIES 24 HR TOTAL COUNT		MAXIMUM LENGTH (MM)		MODAL LENGTH (MM)		MODAL WEIGHT (GR)		#	
MIZZLE SHAD		145.07		5399.		300		90 TO 120	67	77%	5 TO 10	60	69%
FRESHWATER DORY		2.01		42.		265		90 TO 120	8	28%	0 TO 5	5	17%
PACIFIC HASS		0.48		14.		160		90 TO 120	5	45%	10 TO 15	4	46%
TERRAPIN SHAD		0.75		158.		74		60 TO 90	32	62%	0 TO 5	52	100%
STRIPED BASS		0.10		3.		135		90 TO 120	1	50%	5 TO 10	1	50%
MISSISSIPPI SILVERSHIDE		1.45		115.		114		90 TO 120	51	98%	0 TO 5	27	52%
BLUE CATFISH		6.73		32.		258		90 TO 120	11	50%	0 TO 5	11	50%
CHANNEL CATFISH		0.09		7.		120		60 TO 90	3	60%	0 TO 5	3	50%
WOLFILL SUNFISH		0.21		4.		121		90 TO 120	2	67%	10 TO 15	1	33%
PACIFIC SUNFISH		0.18		1.		136		120 TO 150	1	100%	55 TO 60	1	100%
GREAT SUNFISH		0.03		3.		62		30 TO 60	1	50%	0 TO 5	2	100%
ARKANS SILVERSHIDE		0.02		3.		40		60 TO 90	2	100%	0 TO 5	2	100%
WHITE CRAPPIE		0.04		1.		120		90 TO 120	1	100%	15 TO 20	1	100%

* TOTAL SAMPLE WT. INCLUDES 63.9 LBS OF DEBRIS ACCUMULATION.

AKATISAS PAPER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/74

SAMPLE TAKEN: 12-07-70		INLET WATER TEMPERATURE: 49 F		# SCREENS WASHED: 4	NUMBER OF CIRCULATING PUMPS IN OPERATION: 4		24 HOUR TOTAL SAMPLE COUNT: 4684		24 HOUR TOTAL SAMPLE WEIGHT: 255.3 LBS	
SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	MODAL WEIGHT(GM)	#			
WATERBURY SHAD	144.04	2052.	262	90 TO 120	85	824	5 TO 10	76	738	
WATERBURY SHAD	3.24	20.	306	120 TO 150	3	183	10 TO 15	4	246	
WATERBURY SHAD	2.74	19.	345	90 TO 120	4	368	10 TO 15	4	368	
WATERBURY SHAD	1.47	293.	84	60 TO 90	29	568	0 TO 5	52	1008	
MISSISSIPPI SILVERSID	2.43	213.	167	90 TO 120	47	408	5 TO 10	10	27	528
BLUE CATFISH	0.20	19.	117	90 TO 120	6	558	0 TO 5	8	738	
CANADIAN CATFISH	0.16	14.	146	60 TO 90	6	758	0 TO 5	6	758	
WUGGILL SHIMPISH	0.12	10.	95	30 TO 60	3	508	0 TO 5	4	678	
STRIPE DASS	0.27	5.	150	120 TO 150	3	1008	15 TO 20	1	338	
WATERBURY SHAD	0.02	3.	83	60 TO 90	2	1008	0 TO 5	2	1008	
WATERBURY SHAD	1.69	2.	353	330 TO 360	1	1008	445 TO 450	1	1008	
WATERBURY SHAD	0.01	2.	85	60 TO 90	1	1008	0 TO 5	1	1008	
WATERBURY SHAD	0.01	2.	84	60 TO 90	1	1008	0 TO 5	1	1008	

CONTINUED ON NEXT PAGE:

SAMPLE TAKEN: 12-17-78 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	MODAL LENGTH(MM)	MODAL WEIGHT(GB)	#	%
WHITE CRABPPE	0.04	2.	105	90 TO 120	100	10 TO 15	1	100%
EMERALD SHINER	0.01	2.	74	60 TO 90	100	0 TO 5	1	100%

TOTAL SAMPLE WT. INCLUDES 48.4 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-12-78		INLET WATERBOX		# SCREENS WASHED: 4	NUMBER OF CIRCULATING PUMPS IN OPERATION: 4		24 HOUR TOTAL		24 HOUR TOTAL		SAMPLE WEIGHT: 355.7 LBS	
INCLUSIVE TIME		TEMPERATURE: 44 F			SAMPLE COUNT: 14512		SAMPLE WEIGHT: 355.7 LBS					
OF SAMPLE: 24 HRS												
SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)			SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (G)	#	%	
WILLOW SHAD	309.49			13122.	294	90 TO 120	86	81%	5 TO 10	83	78%	
FRESHWATER DRUM	11.14			50.	462	60 TO 90	6	29%	0 TO 5	7	33%	
WHITE BASS	7.65			59.	355	90 TO 120	14	56%	10 TO 15	11	44%	
INDIAN SHAD	3.49			735.	102	60 TO 90	29	54%	0 TO 5	48	89%	
STRIPED BASS	0.96			24.	147	120 TO 150	8	80%	15 TO 20	6	60%	
CROOKED CATFISH	0.51			12.	177	120 TO 150	4	60%	10 TO 15	4	40%	
BLUE CATFISH	1.44			24.	346	90 TO 120	6	60%	5 TO 10	6	60%	
BLUEBELL SUNFISH	0.61			4.	154	120 TO 150	2	50%	25 TO 30	2	50%	
MISSISSIPPI SILVERSHIDE	5.38			460.	115	90 TO 120	50	96%	0 TO 5	28	54%	
SPOTTED SUNFISH	0.08			5.	80	60 TO 90	2	100%	5 TO 10	2	100%	
FLATHEAD CATFISH	0.07			2.	95	90 TO 120	1	100%	5 TO 10	1	100%	
GOLDEN SHINER	0.01			2.	72	60 TO 90	1	100%	0 TO 5	1	100%	
LARGEMOUTH BASS	0.44			2.	237	210 TO 240	1	100%	160 TO 165	1	100%	

CONTINUED ON NEXT PAGE:

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-12-78 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
SLIM MINNOW	0.01	2.	77	60 TO 90	1	100%	0 TO 5	1	100%
OW-SPECKLED SUNFISH	0.03	2.	64	60 TO 90	1	100%	5 TO 10	1	100%

TOTAL SAMPLE WT. INCLUDES 13.2 LBS OF DEBRIS ACCUMULATION.

SAMPLE IDENT: 12-13-79
INCLUSIVE TIME
OF SAMPLE: 24 HRS
TEMPERATURE: 44 F

24 HOUR TOTAL *
SAMPLE WEIGHT: 247.7 LBS

SCREENS
WASHED: 4
NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4
24 HOUR TOTAL
SAMPLE COUNT: 9496

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	MODAL WEIGHT (GR)	#
6177420 CED	201.45	8162.	290	90 TO 120	84	5 TO 10	69 69%
FRESHWATER DOLPH	1.41	17.	290	150 TO 180	3	30 TO 35	2 20%
WATER BASS	1.43	59.	156	90 TO 120	25	10 TO 15	19 53%
TOPEKA FISH	4.42	875.	105	60 TO 90	29	0 TO 5	52 43%
MISSISSIPPI SILVERSIDE	3.72	315.	119	90 TO 120	46	0 TO 5	30 58%
STRIPED BASS	0.59	15.	141	120 TO 150	7	10 TO 15	3 33%
CENTRAL CALFISH	0.17	10.	155	60 TO 90	3	0 TO 5	4 67%
BLUE CALFISH	0.39	31.	124	60 TO 90	11	0 TO 5	11 58%
MUDGILL SILFISH	0.42	7.	142	90 TO 120	2	15 TO 20	1 25%
WATER SILFISH	0.01	3.	57	30 TO 60	2	0 TO 5	2 100%
WATER SILVERSIDE	0.01	2.	93	90 TO 120	1	0 TO 5	1 100%
WHITE CRAPPIE	0.03	2.	100	90 TO 120	1	5 TO 10	1 100%

* TOTAL SAMPLE WT. INCLUDES 32.4 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-15-78		INLET WATER BOX		# SCREENS WASHED: 4	NUMBER OF CIRCULATING PUMPS IN OPERATION: 4	24 HOUR TOTAL		24 HOUR TOTAL	
INCLUSIVE TIME	OF SAMPLE: 24 HRS	TEMPERATURE: 44 F	SPECIES 24 HR TOTAL WEIGHT (LBS)			SAMPLE COUNT:	6441	SAMPLE WEIGHT:	178.5 LBS
SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)								
WHITE CRAYFISH	123.02			4450.					
MISSISSIPPI SILVERSIDED	6.47			1249.					
WHITE CRAYFISH	2.53			207.					
WHITE CRAYFISH	3.20			62.					
FRESHWATER CRAYFISH	2.06			14.					
STRIPED BASS	0.51			13.					
BLUE CATFISH	0.07			10.					
CRAWFISH	0.30			7.					
WHITE CRAYFISH	0.03			2.					
WHITE CRAYFISH	0.03			4.					
WHITE CRAYFISH	0.55			7.					
FLATHEAD CATFISH	0.01			1.					
WHITE CRAYFISH	0.03			1.					

CONTINUED ON NEXT PAGE:

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-15-78 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
SKIN JACK MEMBRANE	0.07	1.	166	150 TO 180	1	100%	25 TO 30	1	100%

* TOTAL SAMPLE WT. INCLUDES 39.6 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-18-78		INLET WATER PROX		# SCREENS		NUMBER OF CIRCULATING		24 HOUR TOTAL		24 HOUR TOTAL	
OF SAMPLE: 24 HRS		TEMPERATURE: 44 F		WASHED: 8		PUMPS IN OPERATION: 4		SAMPLE COUNT:		SAMPLE WEIGHT:	
						</					

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-18-74 CONTINUED:

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
GOLDEN CHINER	0.01	1.	75	60 TO 90	1	100%	0 TO 5	1	100%
SKIP JACK HERRING	0.06	1.	155	150 TO 180	1	100%	25 TO 30	1	100%

TOTAL SAMPLE WT. INCLUDES 22.3 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-14-78

INCLUSIVE TIME
OF SAMPLE: 24 HRS

INLET WATERBOX
TEMPERATURE: 44 F

SCREENS
WASHED: 4

NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4

24 HOUR TOTAL
SAMPLE COUNT: 20367

24 HOUR TOTAL *
SAMPLE WEIGHT: 491.0 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	%	MODAL WEIGHT(LBS)	#	%
GIZZARD SHAD	402.82	18665.	220	90 TO 120	93	87%	5 TO 10	83	78%
THREADFIN SHAD	5.73	1185.	101	60 TO 90	26	48%	0 TO 5	48	89%
MISSISSIPPI SILVERSIDE	4.30	380.	117	90 TO 120	51	98%	0 TO 5	38	73%
WHITE BASS	2.00	49.	160	90 TO 120	7	47%	10 TO 15	7	47%
STRIPED BASS	14.30	26.	510	120 TO 150	4	50%	15 TO 20	5	63%
FRESHWATER DRUM	1.83	23.	195	90 TO 120	2	29%	5 TO 10	2	29%
CHANNEL CATFISH	0.43	20.	142	90 TO 120	3	50%	0 TO 5	2	33%
BLUE CATFISH	0.01	3.	75	60 TO 90	1	100%	0 TO 5	1	100%
POUGILL SUNFISH	0.35	7.	132	90 TO 120	1	50%	10 TO 15	1	50%
SUNFISH	0.29	7.	120	60 TO 90	1	50%	5 TO 10	1	50%
FLATHEAD CATFISH	0.02	3.	85	60 TO 90	1	100%	0 TO 5	1	100%

* TOTAL SAMPLE WT. INCLUDES 58.9 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAG # 12-20-74		INLET WATERBOX		# SCREENS WASHED: #	NUMBER OF CIRCULATING PUMPS IN OPERATION: 4	24 HOUR TOTAL		24 HOUR TOTAL *	
INCLUSIVE TIME	OF SAMPLE: 24 HRS	TEMPERATURE: 46 F				SAMPLE COUNT:	10040	SAMPLE WEIGHT:	235.7 LBS
SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT(LBS)		SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH(MM)	MODAL LENGTH(MM)	#	%	MODAL WEIGHT(GR)	#
GILBERT SHAD	186.59		4153.	205	90 TO 120	97	90%	5 TO 10	85
TRHEADUP SHAD	2.97		541.	117	60 TO 90	32	60%	0 TO 5	50
MISSISSIPPI SILVERSIDE	3.44		270.	120	90 TO 120	50	96%	0 TO 5	33
WHITE BASS	1.33		41.	154	90 TO 120	17	65%	10 TO 15	13
BLUEGILL SUNFISH	0.45		6.	160	150 TO 180	2	50%	5 TO 10	1
CANAL CATFISH	0.06		5.	107	90 TO 120	2	67%	5 TO 10	2
SPOTTED BASS	0.18		6.	126	90 TO 120	3	75%	10 TO 15	3
SMALLMOUTH BUFFALO	2.95		2.	390	360 TO 390	1	100%	850 TO 855	1
GOFFER SUNFISH	0.25		6.	132	60 TO 90	2	50%	0 TO 5	1
CATFISH	0.02		2.	117	90 TO 120	1	100%	0 TO 5	1
FLYBUSTER ORN	1.54		8.	296	120 TO 150	2	40%	20 TO 25	2
ANNU SILVERSIDE	0.01		2.	90	60 TO 90	1	100%	0 TO 5	1

* TOTAL SAMPLE WT. INCLUDES 35.9 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TANK: 12-21-74
INCLUSIVE TIME
OF SAMPLE: 24 HRS
INLET WATERBOX
TEMPERATURE: 44 F
SPECIES 24 HR
TOTAL WEIGHT (LBS)
241.25
SPECIES 24 HR
TOTAL COUNT
11276
NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4
SAMPLE COUNT: 11900
24 HOUR TOTAL *
SAMPLE WEIGHT: 271.1 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	%	MODAL WEIGHT (GM)	%
GILTED SHAD	241.25	11276	203	90 TO 120	88%	5 TO 10	81 72%
INDIAN SHAD	2.74	499	97	60 TO 90	32	0 TO 5	52 96%
WHITE BASS	1.35	47	132	90 TO 120	22	10 TO 15	17 65%
MISSISSIPPI SILVERSIDE	0.24	23	115	90 TO 120	12	0 TO 5	9 69%
FRESHWATER DRUM	1.47	13	272	90 TO 120	2	0 TO 5	2 29%
ROCKBELL SUNFISH	0.30	4	165	90 TO 120	1	10 TO 15	1 50%
CHARREL CATFISH	0.04	5	117	90 TO 120	3	5 TO 10	3 100%
SILVER CAMPBELL	2.37	2	376	360 TO 390	1	465 TO 470	1 100%
ROCK CATFISH	0.07	4	126	90 TO 120	1	5 TO 10	1 50%
SCOTCH BASS	0.17	5	119	90 TO 120	3	10 TO 15	2 67%
WHITE CRAPPIE	0.74	2	244	240 TO 270	1	195 TO 200	1 100%
LONGNOSE GAR	0.42	2	437	420 TO 450	1	155 TO 160	1 100%

* TOTAL SAMPLE WT. INCLUDES 19.7 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY
AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-2H-70

INCLUSIVE TIME

INLET WATERBOX

SCREENS

NUMBER OF CIRCULATING

24 HOUR TOTAL

24 HOUR TOTAL *

OF SAMPLE: 24 HRS

TEMPERATURE: 44 F

WASHED: 4

PUMPS IN OPERATION: 4

SAMPLE COUNT: 16809

SAMPLE WEIGHT: 385.8 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GM)	#	%
GIZZARD SHAD	350.29	16389.	180	90 TO 120	104	91%	5 TO 10	86	75%
THREEDOTT SHAD	1.35	226.	98	60 TO 90	31	60%	0 TO 5	46	88%
WHITE BASS	4.68	44.	338	90 TO 120	11	58%	10 TO 15	8	42%
MISSISSIPPI SILVERSIDE	0.94	95.	117	90 TO 120	36	97%	0 TO 5	29	78%
FRESHWATER DRUM	1.51	23.	274	60 TO 90	5	56%	0 TO 5	5	56%
STRIPED BASS	0.40	10.	135	120 TO 150	4	100%	15 TO 20	2	50%
PLUMGILL SUNFISH	0.70	8.	159	90 TO 120	2	67%	10 TO 15	1	33%
BLUE CATFISH	2.22	3.	371	360 TO 390	1	100%	390 TO 395	1	100%
GOLDFISH	0.24	3.	186	180 TO 210	1	100%	45 TO 50	1	100%
CATFISH	0.05	3.	110	90 TO 120	1	100%	5 TO 10	1	100%

* TOTAL SAMPLE WT. INCLUDES 23.3 LBS OF DEBRIS ACCUMULATION.

ARKANSAS POWER & LIGHT COMPANY AND SCREEN MONITORING

RUN DATE: 01/24/79

SAMPLE TAKEN: 12-29-78

INCLUSIVE TIME
OF SAMPLE: 24 HRS

SCREENS
WASHED: 4

NUMBER OF CIRCULATING
PUMPS IN OPERATION: 4

24 HOUR TOTAL
SAMPLE COUNT: 11147

24 HOUR TOTAL
SAMPLE WEIGHT: 263.2 LBS

SPECIES NAME	SPECIES 24 HR TOTAL WEIGHT (LBS)	SPECIES 24 HR TOTAL COUNT	MAXIMUM LENGTH (MM)	MODAL LENGTH (MM)	#	%	MODAL WEIGHT (GR)	#	%
WHITE CRAPPIE	230.40	10544	222	90 TO 120	94	85%	5 TO 10	85	77%
WHITE CRAPPIE	2.12	324	104	60 TO 90	37	71%	0 TO 5	46	88%
MISSISSIPPI SILVERSIDE	1.84	40	240	90 TO 120	16	70%	10 TO 15	12	92%
WHITE CRAPPIE	1.76	144	116	90 TO 120	50	96%	0 TO 5	35	67%
WHITE CRAPPIE	1.43	19	253	90 TO 120	5	45%	5 TO 10	10	46%
WHITE CRAPPIE	2.36	4	335	180 TO 210	1	50%	70 TO 75	1	50%
WHITE CRAPPIE	0.22	5	142	120 TO 150	2	67%	10 TO 15	1	33%
WHITE CRAPPIE	1.37	2	375	360 TO 390	1	100%	350 TO 355	1	100%
WHITE CRAPPIE	0.25	5	154	90 TO 120	1	33%	15 TO 20	1	33%
WHITE CRAPPIE	0.13	2	130	120 TO 150	1	100%	30 TO 35	1	100%
WHITE CRAPPIE	0.02	2	94	90 TO 120	1	100%	0 TO 5	1	100%
WHITE CRAPPIE	0.20	2	197	180 TO 210	1	100%	50 TO 55	1	100%

* TOTAL SAMPLE WT. INCLUDES 21.1 LBS OF DEBRIS ACCUMULATION.