

LOWELL E. ROE Vice President Facilities Development (419) 259-524

Docket No. 50-346 License No. NPF-3 Serial No. 531

August 3, 1979

Director of Nuclear Reactor Regulation Attention: Mr. Robert W. Reid, Chief Operating Reactors Branch No. 4 Division of Operating Reactors United States Nuclear Regulatory Commission Washington, DC 20555

Dear Mr. Reid:

By letter dated June 27, 1979, you requested further analysis of the Fish Egg and Larvae Entrainment data that appeared in Section 3.1.2.a.5 of the Davis-Besse Annual Environmental Operating Report for 1978. This additional analysis has been developed and is tabulate in the enclosed table.

In regard to the significance of the analysis, even if the entrainment value for the upper 95 percent confidence limit is taken with an assumption of 99 percent mortality, the losses of perch and walleye larvae are less than 0.25 percent of the number lost due to harvesting by Ohio sport fishermen.

Yours very truly,

JSW/awm

Enclosure

A007.11 599009

THE TOLEDO EDISON COMPANY EDISON PLAZA 300 MADISON AVENUE TOLEDO, OHIO 43652



Copies to: Mr. John G. Davis, Director Office of Inspection & Enforcement U.S. Nuclear Regule 'ory Commission Washington, DC 20 55

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Mr. Norman M. Haller, Director Office of Management & Program Analysis U. S. Nuclear Regulatory Commission Washington, DC 20555

Mr. Ronald L. Ballard Chief Environmental Project: Branch No. 1 Division of Safety & Site Analysis U.S. Nuclear Regulatory Commission Washington, DC 20555

Dr. Clarence Hickey U.S. Nuclear Regulatory Commission Washington, DC 20555

Mr. James G. Keppler Regional Director Region III U.S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn, IL 60137



Species	Period During Which Entraigment Occurred	Yolume of ₃ Water (100m ³) withdrawn during period ^b	Larvae/100m ^{3c}			Number of Larvae Entrained		
			Mean	95% Confidence Interval			95% Confidence Intervald	
				Lower Limit	Upper Limit	Mean	Lower Limit	Upper Limit
Carp	21 June - '? July	20,443	0.32	-0.69	1.32	6,542	0	26,985
Emerald Shiner	21 June - 17 August	73,704	4.68	-7.70	17.05	344,935	0	1,256,653
Freshwater Drum	16 May - 12 July	49,951	2.00	-5.15	9.15	99,902	0	457,052
Gizzard Shad	30 May - 17 August	91,598	52.36	-38.38	143.00	4,796,071	0	13,098,514
Rainbow Smelt	16 May - 17 August	103,211	0.92	-0.80	2.64	94,954	0	272,477
Spottail Shiner	30 May - 17 August	91,598	0.18	-0.04	0.40	16,488	0	36,639
Walleye	6 May - 30 May	22,037	41.60	-436.15	519.35	916,739	0	11,444,915
Yellow Perch	6 May - 30 May	22,037	1.60	-0.94	4.14	35,259	0	91,233
TOTAL LARVAE						6,310,890		
EGGS	30 May - 21 June	18,449	2.40	-5.24	10.04	44,278	0	185,228

ICHTHYOPLANKTON ENTRAINMENT AT THE DAVIS-BESSE NUCLEAR POWER STATION - 1978

^aEstimated from Table 1 Section 3.1.2.a.5 (see discussion on page 1).

^b Estimated by multiplying daily discharge rate by 1.3 and adding all daily estimates for the specified period.

C^e Average concentration during their period of occurrence.