

Document too voluminous
to include

JUL 3 1973

Russell Z. Baron, Esq.
Brannon, Ticktin, Baron and Mancini
930 Keith Building
Cleveland, Ohio 44115

In the Matter of The Toledo Edison Company
and The Cleveland Electric Illuminating Company
(Davis-Besse Nuclear Power Station)
Docket No. 50-346

Dear Mr. Baron:

The staff is sending the Coalition under separate cover three documents in further response to the Coalition's Request for Production of Documents dated June 21, 1973.

A document captioned "Table I; Failures in Zircaloy Clad-UO₂" is in response to the Coalition's request number 1(c) under Issue 4.

A study entitled "Navarre Unit of the Ottawa National Wildlife Refuge-Environmental Studies Related to a Nuclear Reactor," undated, is in response to your request 1 under Issue 8. It is attached to a cover letter dated September 30, 1971, from the United States Department of the Interior, Ottawa National Wildlife Refuge to Mr. Howard B. Fox of the Toledo Edison Company.

A report labeled "WASH-1249; Toxicity of Power Plant Chemicals to Aquatic Life," published by the Atomic Energy Commission in June, 1973, is furnished in response to your request number 2 under Issue 8.

Pursuant to your request, the documents are being sent to Mrs. Stebbins' home address.

Sincerely,

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cc w/ documents

John B. Farmakides, Esq.
Dr. Cadet H. Hand, Jr.
Mr. Frederick J. Shon
Joseph F. Tubridy, Esq.
Dr. Harry Foreman
Mrs. Evelyn Stebbins
Gerald Charnoff, Esq.

cc w/o documents

Atomic Safety and Licensing
Appeal Board
Atomic Safety and Licensing
Board Panel
Mr. Frank W. Karas

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DATE ▶	07/02/73 <i>[Signature]</i>								

Form AEC-318 (Rev. 9-53) AECM 0240 U. S. GOVERNMENT PRINTING OFFICE : 1970 O - 405-348

EXHIBIT 5-A

Projected Concentrations of Radioactivity as of the Year 2010 in the Western Basin of Lake Erie Due to Nuclear Power Reactors

<u>Isotope</u>	<u>μCi/cc</u>	<u>Isotope</u>	<u>μCi/cc</u>
Rb-86	7.7×10^{-15}	Cs-134	2.0×10^{-11}
Sr-89	5.4×10^{-12}	Cs-136	1.5×10^{-12}
Sr-90	1.3×10^{-12}	Cs-137	2.2×10^{-11}
Y-90	8.2×10^{-14}	Ba-140	2.1×10^{-12}
Y-91	2.4×10^{-12}	Ce-141	3.3×10^{-14}
Zr-95	4.3×10^{-14}	Ce-144	4.1×10^{-14}
Mo-99	4.4×10^{-13}	P-32	5.1×10^{-15}
Tc-99m	3.6×10^{-14}	Cr-51	3.2×10^{-13}
Ru-103	2.5×10^{-14}	Mn-54	9.7×10^{-13}
Ru-106	1.4×10^{-14}	Fe-55	3.4×10^{-12}
Te-125m	3.2×10^{-15}	Fe-59	1.4×10^{-13}
Te-127m	4.1×10^{-14}	Co-58	1.2×10^{-11}
Te-129m	3.6×10^{-13}	Co-60	2.5×10^{-12}
Te-132	2.0×10^{-13}	H-3	3.7×10^{-8}
I-131	1.0×10^{-11}		
I-133	3.2×10^{-13}		
I-135	1.4×10^{-14}		

These concentrations are based upon the following assumptions:

1. Releases from the following nuclear facilities were considered: Point Beach, Kewaunee, Zion, Cook, Bailly, Palisades, Douglas Point (Canada), Bruce (Canada), Greenwood, Fermi and Davis-Besse.
2. The cubic volume of the western basin of Lake Erie is 5.8 cubic miles.
3. The flow into the western basin through the Detroit River is estimated at about 177,000 cfs.
4. The retention time for water in the western basin of Lake Erie is approximately 56 days.
5. Release rates are based upon information contained in AEC Detailed Environmental Statements, or where such information is not available, on suitable averages based on AEC data for similar reactors.
6. Complete and uniform mixing.