TOLEDO EDISON

EDISON PLAZA
300 MADISON AVENUE
TOLEDO, OHIO 43652-0001

April 23, 1996

RAOG 96-18

Ms. Natalie Murff, PE Studies
Quality Assurance Research Division, ARD, NERL
U. S. Environmental Protection Agency
26 West M. L. King Drive, Room 525
Cincinnati, Ohio 45268

Dear Ms. Murff:

Subject: Results of Water Supply Performance Evaluation Study 37 (WS 037)

Enclosed are the results of the Water Supply Performance Evaluation Study 37 (WS 037) for the laboratory at the Davis-Besse Nuclear Power Station. The result of the Quality Assurance sample for turbidity is entered on the enclosed survey forms. Analyses of the remaining analytes are performed by certified off-site laboratories contracted by Toledo Edison. Therefore, their results are not included in this report.

Please contact Mr. James L. Freels, Manager - Regulatory Affairs, at (419) 249-8466 if you have any questions.

Sincerely yours,

John K. Wood
Plant Manager
Davis-Besse Nuclear Power Station

P. J. McCloskey
3-86-12
Class III Operator
Water Supply

TKW/1km

Enclosures

cc: Z. A. Clayton, Ohio Environmental Protection Agency
Mr. James D. Dolfi, Ohio Department of Health Laboratories
U. S. Nuclear Regulatory Commission Document Control Desk

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OMB#2080-0021
(Exp. 7/97)

WATER SUPPLY LABORATORY PERFORMANCE EVALUATION STUDY
U.S. ENVIRONMENTAL PROTECTION AGENCY
STUDY NO. WS037

OH00147
DAVIS-BESSE NUCLEAR POWER STATION
ENVIRONMENTAL SUPERVISOR
TOLEDO EDISON CO.
5501 N. ST. RT. 2
OAK HARBOR, OH 43449
Samples: I-C

REPORT APPROVED BY:

John K. Wood		Plant Manager	(419)249-2435	
NAME (Print)	SIGNATURE	TITLE	TELEPHONE	DATE

This report is authorized by law (Public Laws 93-523 and 99-339). Successful annual participation in a water supply study or its equivalent is mandatory for every analyte or analyte group for which a drinking water laboratory is certified to conduct official analyses.

Paperwork Reduction Act Notice

Public reporting burden for this collection of information is estimated to average 8.35 hours per respondent. The estimate is based on analysis for an average of thirty-four analytes per respondent. The estimate includes time for reading instructions, preparation of the performance samples, analyses, gathering and reporting of the information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, Information Policy Branch, 2136, U.S. Environmental Protection Agency, 401 M. Street, SW, Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

EPA-359 (Cin)

Study Number	EPA Lab I.D.	Results
W S 0 3 7	O H O O 1 4 7	

Analyte Number & Name	Sample #	MC	</>	Quantity	
TRACE METALS					
140 Antimony	2				µg/L
001 Arsenic	1				µg/L
002 Barium	2				µg/L
141 Beryllium	1				µg/L
226 Boron	2				µg/L
003 Cadmium	1				µg/L
004 Chromium	1				µg/L
091 Copper	1				µg/L
005 Lead	1				µg/L
236 Manganese	1				µg/L
006 Mercury	1				µg/L
237 Molybdenum	2				µg/L
142 Nickel	1				µg/L
007 Selenium	1				µg/L
143 Thallium	2				µg/L
239 Zinc	1				µg/L
NITRATE & NITRITE & FLUORIDE & ORTHOPHOSPHATE					
009 Nitrate as N	1				mg/L
092 Nitrite as N	1				mg/L
010 Fluoride	1				mg/L
261 Orthophosphate as P	1				mg/L

Study Number	EPA Lab I.D.	Results
W S 0 3 7	0 H 0 0 1 4 7	

Analyte Number & Name	Sample #	MC	</>	Quantity	
PESTICIDES					
093 Alachlor	5				µg/L
256 Aldrin	4				µg/L
094 Atrazine	5				µg/L
257 Butachlor	6				µg/L
097 Total Chlordane	3				µg/L
258 Dieldrin	4				µg/L
011 Endrin	1				µg/L
095 Heptachlor	4				µg/L
096 Heptachlor Epoxide	4				µg/L
172 Hexachlorobenzene	4				µg/L
112 Hexachlorocyclo-pentadiene	4				µg/L
012 Lindane	1				µg/L
013 Methoxychlor	1				µg/L
241 Metolachlor	6				µg/L
242 Metribuzin	6				µg/L
243 Prometon	6				µg/L
259 Propachlor	4				µg/L
113 Simazine	5				µg/L
014 Toxaphene	2				µg/L
244 Trifluralin	4				µg/L
CARBAMATES & VYDATE					
098 Aldicarb	1				µg/L
099 Aldicarb Sulfone	1				µg/L
100 Aldicarb Sulfoxide	1				µg/L
101 Carbofuran	1				µg/L
245 Methomyl	1				µg/L
114 Oxamyl (Vydate)	1				µg/L

Study Number	EPA Lab I.D.	Results
WS037	OHO0147	

Analyte Number & Name	Sample #	MC	</>	Quantity	
HERBICIDES					
015 2,4-D	1				µg/L
016 2,4,5-TP (Silvex)	1				µg/L
262 Acifluorfen	2				µg/L
115 Dalapon	2				µg/L
247 Dicamba	2				µg/L
116 Dinoseb	2				µg/L
102 Pentachlorophenol	1				µg/L
117 Picloram	2				µg/L
PCBs					
118 Decachlorobiphenyl	1				µg/L
PAH					
122 Benzo (A) Pyrene	1				µg/L
ADIPATE & PHTHALATE					
134 Di (2-Ethylhexyl) Adipate	1				µg/L
136 Di (2-Ethylhexyl) Phthalate	1				µg/L
MISCELLANEOUS SOCs					
137 Diquat	1				µg/L
138 Endothall	1				µg/L
139 Glyphosate	1				µg/L
AS TRIHALOMETHANES					
019 Bromodichloromethane	1				µg/L
018 Bromoform	1				µg/L
020 Chlorodibromomethane	1				µg/L
017 Chloroform	1				µg/L
021 Total Trihalomethanes	1				µg/L

Study Number	EPA Lab I.D.	Results
W S 0 3 7	0 H 0 0 1 4 7	

Analyte Number & Name		Sample #	MC	</>	Quantity	
AS REGULATED VOCs						
039	Benzene	1				µg/L
037	Carbon Tetrachloride	1				µg/L
049	Chlorobenzene	2				µg/L
045	1,2-Dibromo-3-Chloropropane (DBCP) By Method 504	4				µg/L
054	1,2-Dichlorobenzene	2				µg/L
041	1,4-Dichlorobenzene	1				µg/L
035	1,2-Dichloroethane	1				µg/L
034	1,1-Dichloroethylene	1				µg/L
043	Cis-1,2-Dichloroethylene	2				µg/L
042	Trans-1,2-Dichloro-ethylene	2				µg/L
055	Dichloromethane	1				µg/L
044	1,2-Dichloropropane	2				µg/L
048	Ethylbenzene	2				µg/L
046	Ethylene Dibromide (EDB) By Method 504	4				µg/L
053	Styrene	2				µg/L
040	Tetrachloroethylene	2				µg/L
047	Toluene	2				µg/L
036	1,1,1-Trichloroethane	1				µg/L
061	1,1,2-Trichloroethane	1				µg/L
038	Trichloroethylene	1				µg/L
076	1,2,4-Trichlorobenzene	2				µg/L
032	Vinyl Chloride	1				µg/L
090	Total Xylenes	2				µg/L

Study Number	EPA Lab I.D.	Results
WS0037	OH00147	

Analyte Number & Name		Sample #	MC	</>	Quantity	
AS UNREGULATED VOCs						
067	Bromobenzene	3				µg/L
089	Bromochloromethane	3				µg/L
108	Bromodichloromethane	3				µg/L
062	Bromoform	3				µg/L
069	Bromomethane	3				µg/L
079	n-Butylbenzene	3				µg/L
086	Sec-Butylbenzene	3				µg/L
085	Tert-Butylbenzene	3				µg/L
109	Chlorodibromomethane	3				µg/L
070	Chloroethane	3				µg/L
110	Chloroform	3				µg/L
068	Chloromethane	3				µg/L
071	2-Chlorotoluene	3				µg/L
072	4-Chlorotoluene	3				µg/L
057	Dibromomethane	3				µg/L
066	1,3-Dichlorobenzene	3				µg/L
088	Dichlorodifluoromethane	3				µg/L
056	1,1-Dichloroethane	3				µg/L
059	1,3-Dichloropropane	3				µg/L
060	2,2-Dichloropropane	3				µg/L
058	1,1-Dichloropropene	3				µg/L
152	Cis-1,3-Dichloropropene	3				µg/L
153	Trans-1,3-Dichloropropene	3				µg/L
087	Fluorotrichloromethane	3				µg/L
081	Hexachlorobutadiene	3				µg/L
084	Isopropylbenzene	3				µg/L
083	4-Isopropyltoluene	3				µg/L
078	n-Propylbenzene	3				µg/L
063	1,1,1,2-Tetrachloroethane	3				µg/L

Study Number	EPA Lab I.D.	Results
W S 0 3 7	0 H 0 0 1 4 7	

Analyte Number & Name		Sample #	MC	</>	Quantity	
AS UNREGULATED VOCs						
065	1,1,2,2-Tetrachloro-ethane	3				µg/L
077	1,2,3-Trichlorobenzene	3				µg/L
075	1,2,4-Trimethylbenzene	3				µg/L
064	1,2,3-Trichloropropane	3				µg/L
082	1,3,5-Trimethylbenzene	3				µg/L
ORGANIC DISINFECTION BY-PRODUCTS						
250	Bromochloroacetic Acid	1				µg/L
165	Chloral Hydrate	2				µg/L
157	Dibromoacetic Acid	1				µg/L
158	Dichloroacetic Acid	1				µg/L
160	Monobromoacetic Acid	1				µg/L
161	Monochloroacetic Acid	1				µg/L
162	Trichloroacetic Acid	1				µg/L
INORGANIC DISINFECTION BY-PRODUCTS						
193	Bromate	2				µg/L
260	Bromide	2				µg/L
194	Chlorate	1				µg/L
195	Chlorite	1				µg/L

CHEMISTRY DATA

Study Number	EPA Lab I.D.	Results
W S 0 3 7	0 H 0 0 1 4 7	

Analyte Number & Name	Sample #	MC	</>	Quantity	
MISCELLANEOUS					
022 Residual Free Chlorine	1				mg/L
023 Turbidity	1	2 2		1 . 6 7	NTU
024 Total Filterable Residue (at 180° C)	1				mg/L
025 Calcium Hardness (as Calcium Carbonate)	1				mg/L
026 pH	1				Units
027 Alkalinity (as Calcium Carbonate)	1				mg/L
029 Sodium	1				mg/L
145 Sulfate	1				mg/L
263 TOC	1				mg/L
146 Total Cyanide	1				mg/L
251 Ethylene Thiourea	1				µg/L
252 Dioxin	1				pg/L
253 Asbestos	1				MFL