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EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards consultants publications re aquatic ecology of facility & "Nine Mile Point Aquatic Ecology Summary (1973-81)," in response to NRC Acceptance Review Requests E291.6(a) & E291.11(b).Bibliography of publications encl.

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

June 6, 1983
(6785)

Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Eisenhut:

Subject: Nine Mile Point Nuclear Station Unit 2
Operating License Application
Docket No. 50-410
Responses to Acceptance Review Questions

Enclosed are six (6) copies of publications by Niagara Mohawk's consultants related to the aquatic ecology of the Nine Mile Point area. A bibliographic listing of these publications is provided in Attachment 1. These publications are submitted in response to NRC Acceptance Review Request E291.6(a).

Also enclosed are six (6) copies of a report entitled Nine Mile Point Aquatic Ecology Summary (1973-1981). Copies of this report are being submitted in response to E291.11(b).

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

CVM/JAM:ja
Enclosures

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Attachment 1

List of Aquatic Ecology Publications
Submitted in Response to NRC Acceptance
Review Information Request E291.6(a)

Brodfeld, Bruno. 1972. Developing an adequate hydrothermal monitoring program. Presented at Atomic Industrial Forum Topical Conference on Water Quality Considerations for Siting and Operating Nuclear Power Plants, held October 1-4, 1972 at the Mayflower Hotel, Washington, D.C.

Matchett, D.L. and Y.J. Tsai. 1972. Environmental Engineering Studies for Thermal Discharge at Coastal sites. Presented at 1982 Joint Power Generation Conference, Sept. 11, 1972, Boston, Massachusetts.

Mussalli, Y.G. and E.P. Taft. 1981. Louvered Offshore Intake for Diverting Fish. Proceedings of the ASCE, Journal of the Energy Division 107 (KY 1):89-84.

Mussalli, Y.G., E.P. Taft and P. Hofmann. 1977. Engineering Implications of New Fish Screening Concepts. Proceedings of the 4th National Workshop on Entrainment and Impingement, Chicago, Illinois. December 5-7. pp 367-376.

Mussalli, Y.G., E.P. Taft and J. Larsen. 1980. Offshore Water Intakes Designed to Protect Fish. Proceedings of the ASCE. Journal of the Hydraulics Division, HY-11. November. pp 1885-1901.

Mussalli, Y.G., P. Hofmann and E.P. Taft. 1978. Influence of Fish Protection Considerations on the Design of Cooling Water Intakes. Joint International Symposium of Design and Operation of Fluid Machinery, Colorado State University, Fort Collins, Colorado. June 12-14. pp 413-424.

Mussalli, Y.G., J. Larsen and E.P. Taft. 1979. Designing Offshore Intakes for Fish Protection. American Society of Civil Engineers National Convention, Atlanta, Georgia. October.

Mussalli, Y.G. and E.P. Taft. 1977. Fish Return Systems, pp 288-295. IN: Hydraulics in the Coastal Zone. Proceedings of the 25th Annual American Society of Civil Engineers Hydraulics Division Specialty Conference, Texas A&M University. August.

Pease, T.E., and M.J. Skelly. 1975. Statistical design basis for submerged diffuser. Am. Soc. Civil Engin., J. Power Div. 101(PO1):11-22.

Storr, J.F. and R.A. Sweeney. 1971. Development of a theoretical seasonal growth response curve of Cladophora glomerata to temperature and photoperiod. Proc. 14th Conf. Great Lakes Res., pp. 119-127.

Storr, J.F. 1974. Plankton entrainment by the condenser systems of nuclear power stations on Lake Ontario. IN: THERMAL ECOLOGY, (Gibbons & Sharitz, eds.), pp. 291-295, U.S.A.E.C. Technical Inform. Center.

Storr, J.F. and G.N. Schlenker. 1974. Response of perch and their forage to thermal discharges in Lake Ontario. IN: THERMAL ECOLOGY (Gibbons & Sharitz, eds.) pp. 363-370, U.S.A.E.C. Technical Inform. Center.

Storr, J.F. 1978. Tagging yellow perch in Lake Ontario. Underwater Nat. 3(2): 24-41.

Taft, E.P. and Y.G. Mussalli. 1977. Biological and Engineering Investigation of Angled Flush Fish Diversion Screens, pp 304-312. IN: Hydraulics in the Coastal Zone. Proceedings of the 25th Annual American Society of Civil Engineers Hydraulics Division Specialty Conference, Texas A&M University. August.

Taft, E.P. and Y.G. Mussalli. 1978. Angled Screens and Louvers for Diverting fish at Power Plants. Proceedings of the American Society of Civil Engineers, Journal of the Hydraulics Division 104(HY5, May)623-634.

Taft, E.P. and Y.G. Mussalli. 1978. Fish Diversion and Transportation System for Power Plant Application. American Fisheries Society. Fisheries 3 (3):2-5.

Taft, E.P., R.H. Berger, J. Larsen, J.G. Holsapple and L. Eberley. 1981. Laboratory Evaluation of Larval Fish Impingement and Diversion Systems. Proceeding of the Workshop on Advanced Intake Technology, San Diego, California. April 22-24.

Taft, E.P., P. Hofmann, P.J. Eisele and T.J. Horst. 1976. An Experimental Approach to the Design of Systems for Alleviating Fish Impingement at Existing and Proposed Power Plant Intake Structures. Proceedings of the Third National Workshop on Entrainment and Impingement, New York. February.

Tsai, Y.J. 1972. Far-field effects due to a multiple-jet diffuser. IN: Heated-Effluent Dispersion in Large Lakes: State-of-the-art of analytical modeling (Chapter 12: p. 303-328), part 1. Critique of Model Formulations, ANL/ES-11 by A.J. Policastro and J.V. Tokar.

Tsai, Y.J. and B.E. Burris. 1977. Submerged multiport diffuser thermal discharges from conceptual design to post-operational survey. Proceedings of the Conference on Waste Heat Management and Utilization, held May 9-11, 1977, Miami Beach, FLA. (Vol. 3, p. X-B-49-69).

Weinstein, M.P., and D.T. Logan. 1979. Diversity as a measure of alewife Alosa pseudoharengus dominance of southeastern Lake Ontario, USA. J. Great Lakes Research 5(2):139-143.