Dr. Paul J. Merges, Director Bureau of Radiation New York Department of Environmental Conservation 50 Wolf Road Albany, NY 12233

Dear Dr. Merges:

SUBJECT: CHEVRON/PAWLING SITE DOSE ASSESSMENT

Three copies of the report entitled, "CHEVRON/PAWLING SITE DOSE ASSESSMENT," March 1994, are enclosed. This report was prepared following the recommendation in your April 1, 1993, letter to Mr. John H. Austin, Chief, Decommissioning and Regulatory Issues Branch, Division of Low-Level Waste Management and Decommissioning, Office of Nuclear Material Safety and Safeguards. Your letter indicated that sites to be released for unrestricted use should be computer modelled using the Department of Energy's computer code, "RESRAD". Mr. Austin agreed in his April 20, 1993, letter to you that NRC staff will perform a dose assessment using "RESRAD".

A copy of the confirmatory survey report prepared by NRC's contractor, the Oak Ridge Institute for Science and Education (ORISE), is also enclosed.

The total doses estimated by "RESRAD" are less than 4 millirem per year (mrem/yr) using separately Chevron's data and ORISE's data. We believe that any actual exposure rates would be significantly less than calculated because of the conservative approach to the analyses, e.g., depth of contamination, area of contamination, actual concentration levels, distribution coefficients, etc. For comparison purposes, the current 10 CFR Part 20 dose limit for individual members of the public is 100 mrem/yr. The dose estimates by "RESRAD" confirms the conclusions in the Chevron's radiological survey and ORISE's confirmatory survey reports that the Pawling site satisfies the unrestricted release requirements.

If you have any questions, please contact me at 301-504-2502.

Sincerely yours, [Original signed by] M. (Sam) Nalluswami, Project Manager Decommissioning and Regulatory Issues Branch Division of Low-Level Waste Management and Decommissioning Office of Nuclear Material Safety and Safequards

9403310141 94032 PDR ADOCK 07000903

Enclosures: As stated cc w/o enclosures: Mr. John D. Wolf, Chevron

DISTRIBUTIONA

JSurmeier

Mr. John F. Byrne, National Park Service

NRC FILE CENTER COPY

OFC	*LLDR	on "OFC:" 11	ne	enter: C = *LLDR		*LLDR	& E	LIAR VA	7 4 4
- Laboratoria	SNalluswami	JCopeland	14	JParrott		TJohnson		JAustin	
DATE	3/21/94	3/21/94		3/21/94		3/21/94		3/22/94	
	& File Name:s							RECORD COPY	

Delete file after distribution Yes

ACNW: YES NO IG: YES *SEE PREVIOUS CONCURRENCE NO

Central File LLWM r/f JGreeves

MBell JKinneman NMSS r/f MWeber LBell ifo Enclosure expect

o_ NHT delete ACNW

Dr. Paul J. Merges, Director Bureau of Radiation New York Department of Environmental Conservation 50 Wolf Road Albany, NY 12233

Dear Dr. Merges:

SUBJECT: CHEVRON/PAWLING SITE DOSE ASSESSMENT

Three copies of the report entitled, "CHEVRON/PAWLING SITE DOSE ASSESSMENT," March 1994, are enclosed. This report was prepared following the recommendation in your April 1, 1993, letter to Mr. John H. Austin, Chief, Decommissioning and Regulatory Issues Branch, Division of Low-Level Waste Management and Decommissioning, Office of Nuclear Material Safety and Safeguards. Your letter indicated that sites to be released for unrestricted use should be computer modelled using the Department of Energy's computer code, "RESRAD". Mr. Austin agreed in his April 20, 1993, letter to you that NRC staff will perform a dose assessment using "RESRAD".

A copy of the confirmatory survey report prepared by NRC's contractor, the Oak Ridge Institute for Science and Education (ORISE), is also enclosed.

The total doses estimated by "RESRAD" are less than 4 millirem per year (mrem/yr) using separately Chevron's data and ORISE's data. For comparison purposes, the current 10 CFR Part 20 dose limit for individual members of the public is 100 mrem/yr. The dose estimates by "RESRAD" confirms the conclusions in the Chevron's radiological survey and ORISE's confirmatory survey reports that the Pawling site satisfies the unrestricted release requirements.

If you have any questions, please contact me at 301-504-2502.

Sincerely yours,
[Original signed by]
M. (Sam) Nalluswami, Project Manager
Decommissioning and Regulatory
Issues Branch
Division of Low-Level Waste Management
and Decommissioning
Office of Nuclear Material Safety
and Safeguards

Enclosures: As stated cc w/o enclosures: Mr. John D. Wolf, Chevron

Mr. John F. Byrne, National Park Service
In small Box on "OFC:" line enter: C = Cover E = Cover & Enclosure N = No Copy

LLDR 19 OFC LLDR LLDR LLDR LLDR SNaffüswami JCopeland 100 JParrott NAME TJohnson JAustin 3/21/94 3/2/194 3/2//94 DATE

DISTRIBUTION: Central File LLWM r/f JGreeves MBell JKinneman JHolonich NMSS r/f MWeber LBell