

**Detroit
Edison**

Harry Tauber
Group Vice President

2000 Second Avenue
Detroit, Michigan 48226
(313) 237-8000

May 3, 1983
EF2 - 63,882

Director of Nuclear Reactor Regulation
Attention: Mr. B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Youngblood:

Reference: (1) Enrico Fermi Atomic Power Plant, Unit 2
NRC Docket No. 50-341

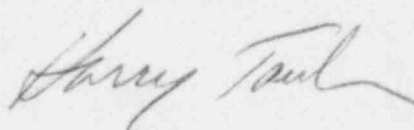
(2) Letter, W. F. Colbert to L. L. Kintner,
EF2-58,782, "Post Accident Sampling
Analytical Procedures", dated July 7, 1982

Subject: Summary of Post Accident Sampling Analytical
Procedures

Our letter of July 7, 1982 committed to provide a summary of
Fermi 2 Post Accident Sampling Analytical Procedures. The
type of analysis, equipment, suitability, range, and analytical
method are attached to this letter.

Edison regard this information to be complete. If you have
any questions, please contact Mr. Larry E. Schuerman
(313) 586-4207.

Sincerely,



cc: Mr. P. Byron
Mr. D. Lynch

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<u>ANALYSIS</u>	<u>EQUIPMENT</u>	<u>SUITABILITY</u> *	<u>METHOD</u>	<u>RANGE & ACCURACY</u>
1. Boron	Hach Kit Model DR-1 Colorimeter	Verified Suitable by GE Testing and in the standard chemical test matrix by Detroit Edison	Carminic Acid	1000 \pm 50 ppm
2. Chloride	1. Dionex 2020-I 2. Selective Ion Electrode	NRC Study by Exxon	1. Ion Chromatography (Off Site by Babcock and Wilcox) 2. For Plant Comparison Analysis	0.5 to 20 + 10% < 0.5 \pm .05 ppm
3. pH	Corning Model 135 pH meter with Micro-electrodes MI-410 probe	Verified by GE and Detroit Edison	pH probe	5 to 9 + 0.3 pH < 5 or > 9 \pm 0.5 pH
4. Conductivity	GE PASS conductivity meter/conductivity Cell (in-line)	Verified by NRC Exxon study and by GE	Direct measurement by inline conductivity cell.	0.54 - 2.0 + 10% > 2.0 \pm 20%
5. Radiochemical Gross Gamma Isotopic	PGT Intrinsic Ge Detector/Nuclear Data 6600.	Standard use in industry	Spectral Analysis	Within a factor of two across the entire range.
6. Oxygen	N/A - See Item 7.	Based on a positive hydrogen residual > 10cc/kg. Hydrogen determined by gas chromatography	1. Positive hydrogen residual as determined by gas chromatography 2. Indigo Carmine (when ALARA permits)	0.5 - 20 ppm + 10% < 0.5 \pm 0.05 ppm
7. Hydrogen	Perkin Elmer Sigma 3B or Varian 3760	Verified through testing by Babcock and Wilcox on TMI samples.	Gas Chromatography	<50 + 5cc/kg 2000 \pm 40 cc/kg

* - Suitability is determined thru testing, utilizing the standard chemical test matrix or by testing in a similar or accident environment.