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 AUTH. NAME AUTHOR AFFILIATION
 MANGAN, C. V. Niagara Mohawk Power Corp.
 RECIP. NAME RECIPIENT AFFILIATION
 ZWOLINSKI, J. A. BWR Project Directorate 1

SUBJECT: Forwards addl info re surveillance capsule program submitted on 851216, per NRC request.

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July 2, 1986

NMPIL 0074

Director of Nuclear Reactor Regulation
Attention: Mr. John A. Zwolinski, Project Director
BWR Project Directorate Number 1
Division of BWR Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Dear Mr. Zwolinski:

By letter dated December 16, 1985, Niagara Mohawk submitted the Surveillance Capsule Program we plan to implement at Nine Mile Point Unit 1. During the review of this program, members of your staff requested additional information. The attached provides the requested information.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

C. V. Mangar
C. V. Mangar
Senior Vice President

PEF:bd
Attachment

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RESPONSE TO QUESTIONS RAISED BY THE NUCLEAR REGULATORY COMMISSION
REGARDING SURVEILLANCE CAPSULE PROGRAM
AT NINE MILE POINT UNIT 1

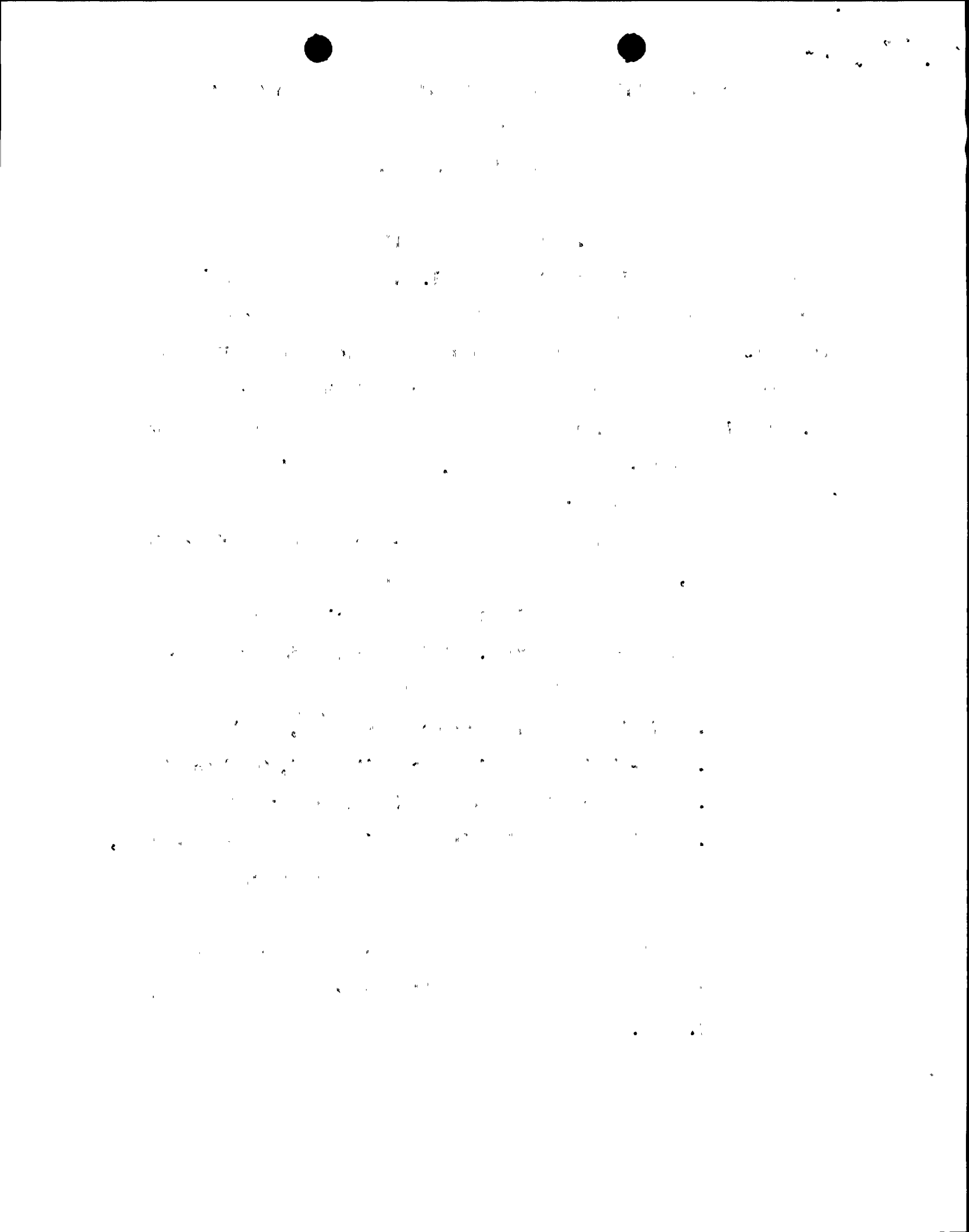
Niagara Mohawk has tested reactor vessel surveillance specimens from two capsules removed from Nine Mile Point Unit 1. These specimens have been recently reconstituted, re-encapsulated and returned to the reactor. The Surveillance Capsule Program planned for implementation at Nine Mile Point Unit 1 was submitted to the Nuclear Regulatory Commission on December 16, 1985. Questions were recently raised by the Nuclear Regulatory Commission staff regarding the re-encapsulated effort. Niagara Mohawk's response to those questions is as follows:

Question: Will dosimetry be put into the re-encapsulated capsules? If yes, is it the same as the original?

Answer: The original iron, nickel and copper dosimetry wires were returned to the capsules. Additionally, dosimetry was also installed which includes the following:

1. Fissionable radiometric monitors (Np^{237} , U^{238});
2. Non-fissionable radiometric monitors (Ti, Co/Al and Nb);
3. Solid state track recorders (U^{235} , Np^{237}); and
4. Helium accumulation fluence monitors (Be, Al as well as Fe, Cu and Co/Al wires with known boron content).

Gadolinium covers were extensively used to adjust the neutron flux energy response of the dosimetry over the range from 0.5 to 11.9 MeV.



Question: How were the Charpy specimens reconstituted?

Answer: The halves of broken full size Charpy specimens were reconstituted at Battelle Columbus Laboratories using a stud welding method documented in EPRI Report NP-2759, dated December, 1982.

Question: How will reconstitution affect the Charpy test?

Answer: No effects on Charpy test results due to the reconstitution are expected. This conclusion is based on the extensive testing that is documented in EPRI NP-2759.

Question: During the reconstitution process, what was the estimated peak temperature at the root of the V-notch?

Answer: As documented in EPRI NP-2759, the peak temperature at the notch during stud welding was measured to be 130^oF.

Question: When are the reconstituted capsules to be re-inserted in Nine Mile Point Unit 1?

Answer: They were re-installed during the recently completed Spring, 1986 refueling outage.

Question: What was the estimated effective full power years on the reactor vessel at the time of capsule re-insertion?

Answer: 10.3 effective full power years.



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