ORNL/TM-10362/A1

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**Characterization of Solids in the
Three Mile Island Unit 2
Reactor Defueling Water.
Addendum**

D. O. Campbell

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Chemical Technology Division

CHARACTERIZATION OF SOLIDS IN THE
THREE MILE ISLAND UNIT 2 REACTOR DEFUELING WATER.

ADDENDUM

D. O. Campbell

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FOREWORD

Shortly after ORNL/TM-10362 was issued, it was discovered that a series of 31 figures, originally intended for inclusion in Appendix F, "PARTICLE CHARACTERIZATION DATA FOR SAMPLE W3 (TURBIDITY = ~4 NTU): FILTRATION TEST 4," had been inadvertently omitted. These figures, which consist of scanning electron microscope (SEM) photographs and energy-dispersive X-ray fluorescence scans, provide significant information about the results obtained in the tests performed with water sample W3.

Therefore, an Addendum is being issued which includes these figures (Figs. F.17 through F.47). Details of and comments on the SEM photographs may be found on pp. 47 and 48 in ORNL/TM-10362. Results from tests using 0.8-, 0.6-, 0.4-, and 0.1- μ m filters are summarized in Figs. F.17-F.25, F.26-F.31, F.32-F.43, and F.44-F.47, respectively. For the convenience of the reader, the page numbering and figure designations in this Addendum are continued in a sequential manner from that used in Appendix F of the base document, ORNL/TM-10362.

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(TURBIDITY = ~4 NTU): FILTRATION TEST 4**

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Fig. F.18. EDX of particle No. 1, 4616 (see Fig. F.17).

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Fig. F.19. EDX of particle No. 2, 4616 (see Fig. F.17).

Fig. F.20. Nuclepore filter test 4 with 4-NTU water sample W3, 0.8- μ m filter.

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Fig. F.22. Nucleopore filter test 4 with 4-NTU water sample W3, 0.8- μ m filter.

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ORNL-DWG 88-6610

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Fig. F.29. EDX of bright particle near center, 4615 (see Fig. F.28).

Fig. F.30. Nucleopore filter test 4 with 4-NTU water sample W3, 0.6- μ m filter.

Fig. F.31. Nucleopore filter test 4 with 4-NTU water sample W3, 0.6- μ m filter.

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Fig. F.35. Nucleopore filter test 4 with 4-NTU water sample W3, 0.4- μ m filter.

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Fig. F.40. Nucleopore filter test 4 with 4-NTU water sample W3, 0.4- μ m filter.

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Fig. F.41. EDX of particle No. 1, 4556 (see Fig. F.40).

ORNL-DWG 88-6619

Fig. F.42. EDX of particle No. 2, 4556 (see Fig. F.40).

ORNL-DWG 88-6620

Fig. F.43. EDX of particle No. 3, 4556 (see Fig. F.40).

Fig. F.44. Nucleopore filter test 4 with 4-NTU water sample W3, 0.1-μm filter.

Fig. F.45. Nucleopore filter test 4 with 4-NTU water sample W3, 0.1-μm filter.

Fig. F.46. EDX of particle No. 1, 4530 (see Fig. F.45).

Fig. F.47. EDX of particle No. 2, 4530 (see Fig. F.45).

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