



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

*File
Solid Waste*

August 22, 1980

NOTE TO: Gale Hovey, Director, TMI-2, Met-Ed
FROM: John T. Collins, Deputy Program Director
TMI Program Office
SUBJECT: OUTLINE FOR TOPICAL REPORTS ON
SOLIDIFICATION SYSTEMS

As a followup to our meeting of August 21st, I have attached for your use the outline used by the staff for vendors who may wish to submit topical reports on solidification systems. In the selection of a vendor for the mobile solidification systems, it would be helpful to the staff if the technical report submitted by the vendor contained a discussion of the items listed in the outline. If you have any questions, please don't hesitate to contact me.

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OUTLINE FOR TOPICAL REPORTS ON
SOLIDIFICATION SYSTEMS

- 1.0 Introduction/Abstract
- 2.0 Process Description
 - 2.1 Feed Control
 - 2.2 Filling and Mixing (level control)
 - 2.3 Positioning and Drive
 - 2.4 Capping and Radiation Monitoring
 - 2.5 Flushing, Self-cleaning, and Decontamination
 - 2.6 Instrument and Control
 - 2.7 Interlocks and Alarm
 - 2.8 Design and Operating Conditions
 - 2.9 P&ID
- 3.0 Process Parameters
 - 3.1 Process Control Program to Provide Complete Solidification
 - 3.2 Free Liquid Detection Procedure
 - 3.3 Feed Characteristics/Type
 - 3.4 Additives Used
 - 3.5 Solidification Agent/Classification
 - 3.6 Radioactivity Leachability
- 4.0 Equipment Description
 - 4.1 Tanks
 - 4.2 Hopper (bin)
 - 4.3 Feeder
 - 4.4 Mixer
 - 4.5 Pump (Metering/Transfer)
 - 4.6 Container (Drum)
 - 4.7 Control Panel
 - 4.8 Piping and Valves
 - 4.9 Instrument
 - 4.10 Heat Tracing
 - 4.11 Scope of Supply and Interfaces
- 5.0 Equipment (System) Layout
 - 5.1 Recommended Layout
 - 5.2 Drum/Container Storage Area Required
 - 5.3 Truck Loading Bay
 - 5.4 Radiation Exposure Control (ALARA)
 - 5.5 Maintenance Accessibility

- 6.0 Codes and Standards
- 7.0 Applicable Federal Regulations, Regulatory Guides, and
NRC Branch Technical Positions
- 8.0 Quality Assurance Program
- 9.0 Research and Development Program
- 10.0 Operating Experience
- 11.0 Postulated Accident Analyses
- 12.0 References

TO: John T. Collins
From: Richard Bangart