

# Inter-Office Memorandum

April 24, 1979



Subject: Reorganization of Waste Management Activities

To: All Members  
TMI-2 Recovery Organization

Location: TMI

Now that the reactor approaches a stable condition preparatory to establishing natural circulation cooling and releases of radioactivity to the environment are being controlled at acceptably low levels, it is timely to mount a more vigorous effort to reduce accumulated liquid and solid wastes and restore the auxiliary building to near normal access and use. Even though many of these waste management activities are independent of the ongoing operation to maintain core cooling, everyone must continue to recognize a sizeable effort must still be dedicated to core and primary system control.

To increase the emphasis on waste management, a separate Unit 2 in-plant waste management organization is being established to:

1. Ensure that public health and safety will be adequately protected during the cleanup and recovery operation.
2. Ensure that necessary operations are carried out without undue personnel exposure.
3. Provide a sharp focus on the waste management effort.
4. Minimize interference between the primary-secondary system operations and waste management operations.
5. Optimize utilization of available staff.
6. Improve efficiency.

The new organization will build on the nucleus of the existing waste management group augmented by separate operating and support groups drawn from the present plant operation.

The new organization will be assigned responsibility for evaluation, planning and execution of all TMI-2 liquid, gaseous, and solid waste operations not directly related to reactor operations. As a first approximation, these activities will encompass most of the Auxiliary Building operations. In all the operations except solid waste processing, Unit 2 waste management operations will be separate and distinct from Unit 1 operations. In the case of solid waste operations, the new waste management activity will provide all the solid waste functions for Unit 2 and the final waste processing function, i.e., solidification, compaction, etc., using the solid waste processing area in Unit 1.

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The new organization shown in Attachment 1 will be gradually put into place over the next week to provide self-contained support activities such as maintenance, health physics, sample coordination, and chemical and radiological analysis facilities.

Objectives of the Waste Management Activity are:

MAJOR OBJECTIVES

- Control (Contain) and manage radioactivity so as to minimize exposure to the public and onsite personnel.
- Develop and implement programs to manage and process contaminated water to:
  - minimize releases of radioactivity
  - optimize use of available storage capacity
  - increase freeboard for contingency storage
- Develop and implement programs to minimize radioactive gas releases
- Develop and implement programs to manage solid radioactive waste
  - volume reduction
  - interim retention facility
  - disposition
- Develop and implement decontamination programs to restore the auxiliary building and equipment to near normal access and use.
  - minimize personnel exposure
  - decontamination techniques
  - strategies and programs
  - management and disposition of resulting wastes

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The functions and responsibilities of each of the groups within WMA are set forth in Attachment 2. Attachment 3 provides guidance for the interfacing of the new organization with existing functions.

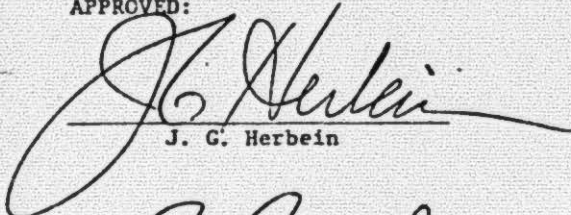
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The organization for this effort is the result of discussions among many of us involved in the TMI-2 recovery efforts. I am very optimistic that it will significantly assist us in increasing our effectiveness in dealing with the problems we face in the cleanup of the contaminated facilities.

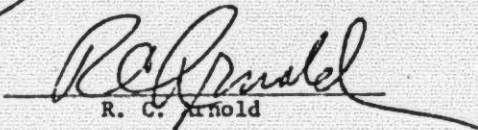


B. Rusche

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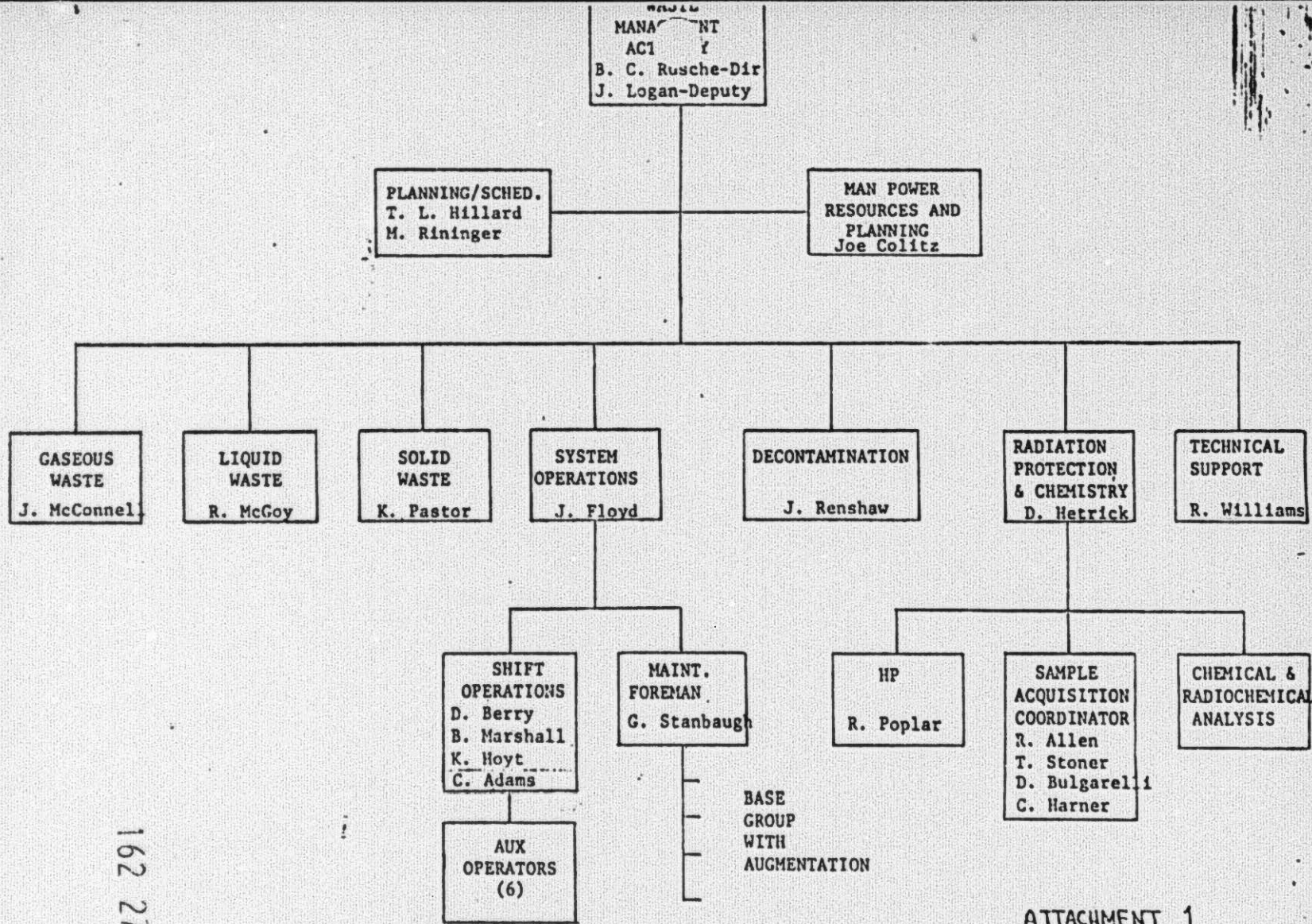
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ATTACHMENT 1  
WASTE MANAGEMENT ACTIVITIES  
ORGANIZATION CHART

## ATTACHMENT 2

### GROUP FUNCTIONS AND RESPONSIBILITIES

A statement of the "Functions and Responsibilities" is presented for each of the groups in Waste Management Activities. These groups' functions are highly interrelated and each should be interpreted in the context of the total organization. These statements were developed in the light of the present perception of circumstances and objectives. As experience is gained with the organization, revisions and adjustments will be made to improve the effectiveness of operation.

#### TECHNICAL SUPPORT

##### Function and Responsibility

1. Provide general technical support for short and mid-term WM activities.
2. Collect, analyze, interpret source and release data. Recommend improvements in practices.
3. Conduct studies and develop plans for water cleanup and management.
4. Conduct studies and develop plans for solid waste management programs.
5. Develop plans and strategies for decontamination including methods, programs, and procedures.
6. Maintain current assessment of all waste volumes, movements, and plans. Provide revised and improved plans as experience accumulates.

#### LIQUID WASTE

##### Functions and Responsibilities

1. Maintain current assessment of waste management situation - volumes, composition, radioactivity levels, options for control, contingency plans.
2. Develop strategies for short term management to optimize use of existing volumes.
3. Plan strategies for processing existing waste water in conjunction with technical support.
4. Develop specification for new or modified facilities to carry out necessary functions. Maintain close coordination with System Plant Operations.
5. Assume that capabilities exist for chemical analysis needed for the processing operation and monitoring potential release pathways.
6. Provide liaison with engineering and construction as needed.

GASEOUS WASTEFunctions and Responsibilities

1. Develop strategies for minimizing releases - timing, release points, filter and absorber replacement.
2. Maintain current assessment of gas management strategies - volumes and sources, chemical and radioactive composition, options for control, contingency plans.
3. Develop strategies for short term management.
4. Develop equipment and operational improvements to enhance confinement and collection effectiveness.
5. Provide liaison with engineering and construction as needed.

DECONTAMINATIONFunctions and Responsibilities

1. In conjunction with Technical Support, identify, evaluate, and recommend techniques for decontamination of Auxiliary Building.
2. In conjunction with Technical Support, develop methods and equipment and implement programs to manage and dispose of resulting wastes.
3. Recommend strategies for selecting decontamination sequences to minimize exposure and return facilities to near normal use in lowest practical time.
4. Provide liaison with engineering and construction as needed.

SOLID WASTE MANAGEMENTFunctions and Responsibilities

1. In conjunction with Technical Support maintain current assessment of solid waste management activities - volume, generation rate, radio-activity levels, form and nuclide distribution.
2. Develop estimate of future waste generation.
3. Develop and assist in bringing into operation volume reduction equipment.
4. Develop specification for interim storage and control programs and facilities.
5. Develop plans and programs for off-site disposition of waste.
6. Provide liaison with engineering, construction and contracts as needed.

SYSTEM OPERATIONSFunctions and Responsibilities

1. Carry out Waste Management Operations for TMI-2 on a 24 hr. basis.
2. Conduct operations with Guidance and Technical Input of the WMA Support groups.
3. Conduct operations under TMI administrative and procedural system adapted to fit present circumstances.
4. Scope of Activities
  - a. All activities in TMI-2 Auxiliary Building except those directly connected or associated with the primary or secondary reactor systems.
  - b. All solid waste activities for TMI-2 and final processing of TMI-1 solid wastes using common facilities in TMI-2.
  - c. EPI - COR 1
  - d. EPI - COR 2
5. Provide basic maintenance support for waste management operations augmented by other station staff as needed.
6. Provide construction and start-up surveillance as needed for construction projects.

RADIATION PROTECTION AND CHEMISTRYFunctions and ResponsibilitiesHealth Physics

1. Provide monitoring and surveillance for routine RWP work using standard plant procedures adapted as approved for present circumstances.
2. Provide special personnel survey and monitoring coverage.

Sample Acquisition and Coordination

1. Coordinate all chemical, radiochemical and physical sampling efforts for WMA.
2. Establish and maintain current priorities.
3. Act as expediter to acquire and prepare samples for analysis...
4. Maintain achieved records of all samples requested, taken, and results obtained.

Chemical and Radiological Analyses

1. Provide chemical analysis capabilities to support water processing operations.
2. Provide radiological analysis capability for liquid, gaseous and solid samples at low and intermediate radioactivity levels.

## ATTACHMENT 3

### INTERFACES

Establishment of a separate Waste Management Organization introduces a number of interfaces with existing organizations. As a means of defining the interfaces as unambiguously as possible, a number of interface statements have been developed. As a general approach, in all areas where either both Unit 1 and Unit 2 share a common facility or where a single piece of equipment serves both primary-secondary system operations and WMA, the organization desiring use of the facility or operation assumes responsibility to obtain clearance from the working supervisor of the other organization before the use or operation is carried out.

Standard plant procedures will apply uniformly to both organizations each using their own approval chains. It is important in the application of these procedures that a careful balance be drawn between steps aimed at protecting the public and plant personnel and those administratively more suited to normal operations. Supervision at all levels should be informed of the need to make adjustments and adaptations when circumstances warrant so that scheduled work may proceed expeditiously.

Refinements and adjustments in the interface relationships will be made when experience warrants.

#### 1. Geographical location of TMI-2 Waste Management Operation

Operations of the TMI-2 WMA generally encompass all the activities carried on in the Auxiliary Building except those related directly to primary and secondary systems or within containment.

#### 2. Management and processing of liquids

##### Assigned to WMA

WDL-T-1A

WDL-T-1C

RC Bleed Tanks

WDL-T-1B

WDL-T-2

Misc. Waste Holding Tank

##### Operations of EPI - COR 1 & 2

WDL-T-9A

Evaporator Condensate Tank

-9B

WDS-T-2

Concentrated Waste Tank

WDS-T-8A

Neutralizer Tanks

-8B



## Auxiliary Building Sump Tank

WDL-T-5 Auxiliary Building Sump Tank

WDL-T-11A Contaminated Drain Tanks  
-11B

Assigned to Reactor Operations

R Make up tank for reactor operations

DHR System

Secondary System clean up

## 3. Management and Processing of Gaseous Waste

Assigned to WMA

Air Clean Up Systems

A &amp; B Auxiliary Clean Up Systems

A &amp; B Fuel Handling Building Systems

Assigned to Reactor Operations

Clean up for Condenser Air Ejector

## 4. Solid Waste Operation

Assigned to WMA

All Waste Management Operations for Unit 2

Auxiliary Building space in Unit 1 for solid waste operation

Assigned to Reactor Operation Unit 1

Solid Waste Management in Unit 1 utilizing the WMA facilities  
in Unit 1

## 5. Decontamination

Assigned to WMA

All decontamination activities in Unit 2 Auxiliary Building

Assigned to Reactor Operations