ADVANCED MIXED WASTE TREATMENT PROJECT

TRI-PARTY MEMORANDUM OF AGREEMENT

for

BNFL Inc.

Department of Energy

and

Lockheed Martin Idaho Technologies Company

United States Department of Energy
Idaho Operations Office
Tri-Party Memorandum of Agreement

for the

Department of Energy
Idaho Operations Office

Lockheed Martin Idaho Technologies Company

and

BNFL Inc.

ADVANCED MIXED WASTE TREATMENT PROJECT

SIGNATURE PAGE

Effective Date: January 31, 1998

With a common goal of meeting all of the transuranic waste-related milestones in the Settlement Agreement with the State of Idaho, the undersigned authorities acknowledge their organizations' roles and responsibilities as identified in this Memorandum of Agreement (MOA). This MOA remains in effect until it is superseded by a new document. Where this MOA conflicts with existing DOE contracts with Lockheed Martin Idaho Technologies Company (LMITCO) or BNFL Inc., the contracts take precedence.

Approved by:

F. J. Yaklich
BNFL Inc. - General Manager AMWTP

1/28/98

M. J. Bonkoski
DOE-ID - Director AMWTP

1/28/98

G.E. Ellis
LMITCO Acting Executive Vice-president for Operations

1/28/98
# CONTENTS

Acronyms ..................................................................................................................................................... vi

**Introduction** ................................................................................................................................................. 1

  - Scope ................................................................................................................................................ 1
  - AMWTP Background .......................................................................................................................... 1
  - Purpose of the AMWTP MOA .......................................................................................................... 1
  - Updates and Changes .......................................................................................................................... 2

**Section 1: Government-Furnished Property and Equipment** ..................................................................... 5

  - Brief Description of Interface ............................................................................................................ 5
  - Administrative Office Space ............................................................................................................... 5
  - TSA-RE (WMF-636) and Support Equipment .................................................................................... 5
  - Type I and Type II Storage Buildings and Other TSA Facilities ...................................................... 6
  - Responsibility Statements .................................................................................................................... 8

**Section 2: Utilities** .................................................................................................................................... 10

  - Brief Description of Interface ............................................................................................................ 10
  - Electrical .......................................................................................................................................... 10
  - Potable Water .................................................................................................................................... 10
  - Fire Water ......................................................................................................................................... 11
  - Communications ................................................................................................................................. 11
Appendix C—Points of Contact for Phase I AMWTP MOA ............................................................... C-1

Appendix D—MK Drawings .............................................................................................................. D-1

1-02-52-001 (Site Plan During Construction) ................................................................................. D-2

1-02-52-002 (Site Utilities) .............................................................................................................. D-3

1-02-52-005 (Traffic Plan) .............................................................................................................. D-4

1-02-54-001 (Electrical Site Plan) .................................................................................................... D-5
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMLL</td>
<td>Alpha mixed low-level</td>
</tr>
<tr>
<td>AMWTP</td>
<td>Advanced Mixed Waste Treatment Project</td>
</tr>
<tr>
<td>ATC</td>
<td>Authorization to Construct</td>
</tr>
<tr>
<td>CAMS</td>
<td>Constant Air Monitoring System</td>
</tr>
<tr>
<td>C&amp;S</td>
<td>Certified and Segregated</td>
</tr>
<tr>
<td>CFA</td>
<td>Central Facilities Area</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>DEQ</td>
<td>State of Idaho Division of Environmental Quality</td>
</tr>
<tr>
<td>DOE</td>
<td>U.S. Department of Energy</td>
</tr>
<tr>
<td>EDF</td>
<td>Engineering Design File</td>
</tr>
<tr>
<td>EIS</td>
<td>Environmental Impact Statement</td>
</tr>
<tr>
<td>EM</td>
<td>environmental management</td>
</tr>
<tr>
<td>ENS</td>
<td>Emergency Notification System</td>
</tr>
<tr>
<td>ER</td>
<td>environmental restoration</td>
</tr>
<tr>
<td>ES&amp;H</td>
<td>Environment, Safety &amp; Health</td>
</tr>
<tr>
<td>ESHPOP</td>
<td>Environment, Safety &amp; Health Program Operating Plan</td>
</tr>
<tr>
<td>GFE</td>
<td>Government-Furnished Equipment</td>
</tr>
<tr>
<td>HAZMAT</td>
<td>hazardous materials</td>
</tr>
<tr>
<td>HAZWOPER</td>
<td>hazardous waste operator</td>
</tr>
<tr>
<td>HEPA</td>
<td>high-efficiency particulate air</td>
</tr>
<tr>
<td>HVAC</td>
<td>heating, ventilation, and air conditioning</td>
</tr>
<tr>
<td>ACRONYMS</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>HWMA</td>
<td>Hazardous Waste Management Act</td>
</tr>
<tr>
<td>IDAPA</td>
<td>Idaho Administrative Procedures Act</td>
</tr>
<tr>
<td>IMWI</td>
<td>Idaho Mixed Waste Information (System)</td>
</tr>
<tr>
<td>INEEL</td>
<td>Idaho National Engineering and Environmental Laboratory</td>
</tr>
<tr>
<td>IRT</td>
<td>Incident Response Team</td>
</tr>
<tr>
<td>LMITCO</td>
<td>Lockheed Martin Idaho Technologies Company</td>
</tr>
<tr>
<td>kW</td>
<td>kilovolt</td>
</tr>
<tr>
<td>kW</td>
<td>kilowatt</td>
</tr>
<tr>
<td>MLLW</td>
<td>mixed low-level waste</td>
</tr>
<tr>
<td>MK</td>
<td>Morrison Knudsen</td>
</tr>
<tr>
<td>M&amp;O</td>
<td>management and operations</td>
</tr>
<tr>
<td>MOA</td>
<td>Memorandum of Agreement</td>
</tr>
<tr>
<td>MVA</td>
<td>megavolt amperes</td>
</tr>
<tr>
<td>NESHAP</td>
<td>National Emission Standards for Hazardous Air Pollutants</td>
</tr>
<tr>
<td>OPSEC</td>
<td>Operations Security</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety and Health Administration</td>
</tr>
<tr>
<td>PMP</td>
<td>Project Management Plan</td>
</tr>
<tr>
<td>psi</td>
<td>pounds per square inch</td>
</tr>
<tr>
<td>PTC</td>
<td>Permit to Construct</td>
</tr>
<tr>
<td>RAMS</td>
<td>Remote Area Monitor System</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
</tr>
<tr>
<td>RFP</td>
<td>request for proposal</td>
</tr>
</tbody>
</table>
Introduction

Scope

This document is the initial version of the Advanced Mixed Waste Treatment Project (AMWTP) Memorandum of Agreement (MOA). It is a tri-party agreement approved by BNFL Inc., the Department of Energy Idaho Operations Office (DOE-ID), and the Idaho National Engineering and Environmental Laboratory (INEEL) Management and Operations (M&O) contractor, Lockheed Martin Idaho Technologies Company (LMITCO). This version of the AMWTP MOA primarily defines the required interfaces for Phase I of the AMWTP contract and outlines each of the three party's responsibilities for identified interface areas.

The AMWTP MOA is a phased agreement that will be updated for each phase of the AMWTP contract. The AMWTP contract is a prime DOE-ID contract (DE-AC-07-97ID13481) with BNFL Inc. Phase I is in progress and is scheduled to be completed in April 1999. Phase I activities include design, permitting, stakeholder involvement, and construction planning. Activities in Phase II consist of construction and operational testing and Phase III is operations.

AMWTP Background

DOE awarded the AMWTP contract to BNFL Inc. on December 20, 1996. One of the DOE’s largest privatization efforts to date, the AMWTP is an important part of the INEEL’s plan for long-term management and disposition of stored transuranic (TRU)-contaminated waste. The AMWTP will retrieve and treat approximately 65,000 cubic meters of INEEL TRU and alpha mixed low-level waste (ALL W) currently stored above-ground at the RWMC. Treating the waste meets several of the milestones established in the Settlement Agreement with the U.S. Department of Energy on Spent Nuclear Fuel (The Settlement Agreement) with the State of Idaho and the U. S. Navy. Additionally, DOE has the option to have the Facility treat additional DOE waste streams.

Purpose of the AMWTP MOA

The purpose of the AMWTP MOA is to identify interfaces between BNFL Inc., DOE-ID, and the M&O LMITCO, and to acknowledge each party’s responsibilities to work towards the successful completion of the AMWTP. The AMWTP MOA is also intended to promote a cooperative working relationship among the three parties.

The shipment of 3,100 cubic meters of TRU waste to the Waste Isolation Pilot Plant (WIPP) that LMITCO plans to complete by December 31, 2002, and the on-time startup of BNFL Inc.’s AMWTP Facility are both essential to DOE-ID meeting the milestones agreed upon in the Settlement Agreement with the State of Idaho. The transition of facilities and equipment to BNFL Inc.’s control, and the AMWTP Facility construction activities have the potential to affect the INEEL’s ability to meet these milestones. In addition, the AMWTP permitting and design phase is aggressive. AMWTP’s Phase I schedule will require effective working communications among BNFL Inc., DOE-ID, and LMITCO to ensure AMWTP permits and associated documents meet the State of Idaho’s and INEEL’s requirements. The AMWTP MOA is designed to provide a basis for effective communications among BNFL Inc.,
DOE-ID, and LMITCO. This communication needs to be focused on the ultimate success of the AMWTP and the INEEL cleanup mission.

Updates and Changes

There are two planned updates for the AMWTP MOA. Interfaces required to support Phase II of the AMWTP will be included in the first update, scheduled for completion three months prior to initiating construction of the AMWTP Facility (projected to begin April 1, 1999). The Phase III update is scheduled for completion six months before the startup of AMWTP operations (projected to begin March 1, 2003). The second update will include interfaces related to AMWTP operations at the RWMC. Previous versions of the AMWTP MOA will be re-evaluated during the update process to confirm that earlier agreed-upon interface responsibilities are adequate for the AMWTP contract phase being addressed. Each update will be reviewed and approved by the original signatories or their successor.

Between updates, the adequacy of the AMWTP MOA will be periodically reviewed by all three parties. At any time, at the request of any of the three parties, an ad hoc modification to this AMWTP MOA can be proposed, and will be considered by the other parties. On agreement by the authorized signatories, the AMWTP MOA can be modified to accommodate changed or unforeseen circumstances.

Organization of the AMWTP MOA

The Phase I AMWTP MOA addresses interfaces related to AMWTP design, permitting, and stakeholder involvement, as well as construction planning. It also addresses interfaces requiring long-range planning for operations, facilities, utilities, and equipment. The Phase I AMWTP MOA is divided into the following sections: Government-Furnished Property and Equipment, Utilities, Environmental Permits, Waste Characterization, the INEEL Site Treatment Plan (STP), and Emergency Response and Preparedness. The Phase I interfaces in each of these six areas are fully addressed.

To meet AMWTP permitting requirements and to facilitate preliminary planning, some sections include an overview of future construction and operation interfaces. When future interfaces are included, they are clearly identified as such. These interfaces are included in the Phase I AMWTP MOA for information and to set the overall context of the AMWTP MOA. The future interfaces identified, unless required by the AMWTP contract, do not impose any additional responsibility on any of the three parties. In addition, all future interfaces included in this Phase I AMWTP MOA will be thoroughly reviewed again before inclusion in the planned AMWTP MOA updates.

The planned update for Phase II of the AMWTP MOA will add detailed sections on Health and Safety and Safeguards and Security. A preliminary list of topics to be addressed in these additional sections is included in Appendix A. The need for additional sections may arise in the future to address Phase III interface requirements.

Any individual interface may appear in increasing levels of detail in subsequent planned AMWTP MOA updates. During Phase I, it may be sufficient to describe an interface service in general terms for planning purposes. During Phase II, it may be necessary to define the physical point of interface for construction purposes. In Phase III, the AMWTP MOA may need to define precise maintenance responsibilities for the service provided during operations.
Appendix B to this AMWTP MOA provides a list of potential interfaces that require simple information exchanges among the three parties. Should the need for an expanded role or responsibility develop in these areas, these informational interfaces will be incorporated into the body of the AMWTP MOA.

**AMWTP MOA Approval Authority**

The AMWTP MOA must be approved by all three parties. The BNFL Inc. approval authority for all sections of the AMWTP MOA is the BNFL Inc. - General Manager AMWTP. The DOE-ID approval authority for all sections of the AMWTP MOA is the DOE-ID - Director AMWTP. The LMITCO approval authority is the LMITCO - Executive Vice-president for Operations.

Appendix C provides a list of the organizational Points of Contact for all three parties. These points of contact developed the AMWTP MOA for management approval.

**Funding Issues**

This AMWTP MOA does not modify approved work scopes, provide funding for the activities described, meet National Environmental Policy Act requirements for the activities described or in any way replace AMWTP contractual requirements. The AMWTP MOA is a driving force for LMITCO management to identify the work required to support the interface activities and to obtain funding for that work. By signing this AMWTP MOA, LMITCO management acknowledges the need for the interface activities and further, agrees to pursue funding as necessary from the appropriate DOE funding sources to accomplish the specified work scope. If the work scope is approved and funded on the requested schedule, LMITCO accepts responsibility for completion of the identified interface activities.

DOE-ID’s approval of the AMWTP MOA indicates their commitment to completing the required activities outlined within this document. DOE-ID will work with associated DOE programs to ensure AMWTP MOA activities are given the necessary priority and funding.

The success of the AMWTP is critical to the mission of the INEEL and to the INEEL’s future. It is in the best interest of all three parties to work together to secure the funding required to complete the AMWTP and the work scope tied to the AMWTP MOA on schedule.

The AMWTP contract between DOE-ID and BNFL Inc. specifies the unit price for mandatory and certain elective services. In the manner directed by the DOE-ID Contracting Officer, BNFL Inc. will be billed for these mandatory and selected elective services at the rates specified in the contract. Other services purchased by BNFL Inc. that are not specified in the AMWTP contract will be charged consistent with the M&O’s disclosed accounting practices.

**Issue Resolution**

Potential conflicts among the parties will be avoided through a cooperative effort to avoid adversarial relations. If disputes arise regarding the interpretation or implementation of this AMWTP MOA, they will be resolved at the first opportunity and at the lowest possible level. If disputes can not be resolved in this manner to the satisfaction of all three parties within five working days, they can be submitted by any one party to an AMWTP MOA Dispute Resolution Committee. This committee will be composed of
the DOE-ID - Assistant Manager for the Office of Program Execution, the LMITCO - Executive Vice-president for Operations and the BNFL Inc. - General Manager AMWTP. This committee will address the dispute within five working days of it being brought to their attention. Decisions by this committee will be considered an "ad hoc modification" to the AMWTP MOA, as described in the above Updates and Changes paragraphs.
Section 1
Government-Furnished Property and Equipment

Brief Description of Interface

The AMWTP contract offered several facilities [Transuranic Storage Area-Retrieval Enclosure (TSA-RE) Waste Management Facility (WMF-636), Type II Storage Buildings (WMF-629 through 634), Type I Storage Building (WMF-635), Stored Waste Examination Pilot Plant (SWEPP) (WMF-610) and the Transuranic Package Transporter (TRUPACT) Loading Facility (WMF-618)] as government-furnished property. This offer included the personal property (e.g., equipment) and related personal equipment (e.g., integral systems) contained in the identified buildings. Prior to property transfer, all property will be identified by a unique property identification number. At the time of property transfer, BNFL Inc. will assume the responsibility for maintenance and configuration control of the property.

Prior to property transfer, the M&O Logistics Directorate will specify the requirements (i.e., forms, procedures, and approvals) to formally transfer custody of identified property.

Administrative Office Space

Space to accommodate 40 administrative office personnel will be made available to BNFL Inc. within the RWMC Administrative Area at the RWMC site by the M&O contractor. Office space will include access and use of support areas such as training rooms, conference rooms, storage rooms, rest rooms, lunch room, and their related support areas. The need date for this office space is January 1, 2003. Requests by BNFL Inc. for office space prior to this date will be considered by the M&O based on the M&O requirements for office space. If the M&O is unable to accommodate BNFL Inc.’s need for office space prior to January 1, 2003, BNFL Inc. may provide temporary office accommodations at RWMC.

TSA-RE (WMF-636) and Support Equipment

Acceptance of the Facility including fire sprinkler, electrical, heating, ventilation, and air-conditioning (HVAC), lighting, and associated equipment will occur at the time of transfer. The transfer process includes an inspection. The inspection will include reviewing maintenance and property upkeep records and testing to confirm proper equipment operation. Additionally, radiation surveys will be conducted (per 10CFR835 Appendix D and the INEEL Radiological Control Manual) to verify that the property and equipment are not contaminated with radioactive or hazardous waste. Turnover of WMF-636 and related equipment includes the turnover of operating and maintenance records, technical manuals, related drawings and documents, and the subsequent responsibility for continuing configuration control.

To prepare for and support retrieval, the following equipment items are to be available to BNFL Inc.:

- Security Trailer
- Excavator (T-REX) with motor starter
- Closed circuit television system - 4 television cameras and 2 monitors (currently not installed)
• Trailer-mounted vacuum (Guzzler)
• Mobile man lift
• Isolation unit (currently not assembled)
• Rad con office trailer
• Constant Air Monitor System (CAMS) and Remote Area Monitor System (RAMS) (2 RAMS, 4 alpha CAMS, 4 beta CAMS)
• Cable ramps (60 feet of elevated cable protectors used to protect cable on the ground from damage from rolling stock)

The equipment and property itemized above will be available for transfer no later than October 1, 2002, unless noted otherwise above. If BNFL Inc. proposes to start retrieval operations prior to January 1, 2003, an earlier transfer date may be requested in their Retrieval Plan, which must be submitted at least one year in advance of their proposed early retrieval date.

**Type I and Type II Storage Buildings and Other TSA Facilities**

Acceptance of property and equipment will occur through an inspection acceptance transfer activity at the time of turnover. Inspection will include reviewing maintenance and property upkeep records and testing to confirm proper equipment operation. Additionally, radiation surveys will be conducted (per 10CFR835 Appendix D and the INEEL Radiological Control Manual) to verify that the property and equipment are not contaminated with radioactive or hazardous waste. Turnover of equipment will include turnover of operating and maintenance records, technical manuals and applicable drawings, and the subsequent responsibility for continuing configuration control. The following facilities will be made available to BNFL Inc. for full and unencumbered use as indicated.

**WMF-610 SWEPP Building**

The Stored Waste Examination Pilot Plant (SWEPP) Facility is an integral part of the M&O’s plan to ship 3,100 cubic meters of waste to WIPP prior to the start-up of the AMWTP Facility. It is unlikely that the SWEPP Facility would be available for transfer to BNFL Inc. prior to December 31, 2002. Based on that availability date, BNFL Inc. is reconsidering their previously-expressed request for SWEPP as a Government-Furnished Facility. A BNFL Inc. decision on SWEPP is expected in June 1998.

**WMF-635 Type I Storage Module**

BNFL Inc. plans to modify the Southeast corner of WMF-635 to accommodate waste characterization activities. Facility modification and use will be defined in the BNFL Inc. retrieval plan. The RWMC Hazardous Waste Management Act (HWMA) Permit modification required for such use is addressed in the Environmental Permit section of this AMWTP MOA. The Southeast corner of the Type I Storage Module will be made available for BNFL Inc.’s use nine months prior to the start of retrieval. The entire building and equipment within the building will be available for BNFL Inc.’s full utilization on January 1, 2003.
WMF-629 through 634 Type II Storage Modules

The Type II buildings will be available for use during construction of the AMWTP Facility and/or for storage of waste containers for the AMWTP Facility during retrieval and operations.

During Construction: WMF-634 will be available for BNFL Inc.'s temporary use for construction material staging and storage on BNFL Inc.'s planned construction mobilization start date of March 1, 1999. BNFL Inc. has also requested the use of WMF-632 and WMF-633 during construction for additional material staging and storage. Based on cost estimates and programmatic needs, DOE-ID is expected to make a decision on the availability of WMF-632 and WMF-633 by July 1, 1998. LMITCO will remove waste from the Type II Storage Module(s) provided to BNFL Inc. for use during construction prior to March 1, 1999. Prior to releasing the building(s) to BNFL Inc., LMITCO will perform a radiation clearance survey (per 10CFR835 Appendix D and the INEEL Radiological Control Manual) and any required decontamination to make the Modules ready for use by BNFL Inc. The cost of waste removal from Modules WMF-632 and WMF-633, as needed to specifically make the Modules available for construction staging use, will be negotiated between the AMWTP MOA parties. MK Drawing 1-02-52-001 depicts the location of the Type I, Type II, and the C&S Building within the AMWTP construction boundary, as well as the planned use of RWMC areas for construction purposes. This will help identify potential affects to ongoing operations at the RWMC during AMWTP construction.

During Retrieval: Use of additional Type II Modules will be requested/defined in the BNFL Inc. Retrieval Plan, which must be submitted at least one year in advance of the proposed early retrieval date.

During Operations: Full use of these Resource Conservation and Recovery Act (RCRA) Type II Modules (WMF-629, 630, 631, 632, 633, and 634) and the TSA site will be provided to BNFL Inc. on the planned operational start date of January 1, 2003. MK Drawing 1-02-52-005 depicts the access routes and traffic patterns to be used by BNFL Inc. during AMWTP operations at the RWMC. This will help identify potential impacts to ongoing maintenance activities at the RWMC during AMWTP Facility operations.

(Note: WMF-628 is planned to remain under M&O control to store Pit 9 waste and waste that will not be treated in the AMWTP.)

WMF-618 TRUPACT Loading Facility

The WMF-618 will be used by BNFL Inc. during AMWTP Facility operations for TRUPACT loading. LMITCO will utilize WMF-618 through December 31, 2002. Full use will be provided to BNFL Inc. after the planned operational start date of January 1, 2003.
Certified and Segregated (C&S) Structure Removal

An approved RCRA Closure Plan is required prior to the removal of the C&S structure. A plan has been submitted to the State of Idaho. If the Closure Plan is approved as requested, the C&S structure will be removed prior to March 1, 1999, to allow AMWTP Facility construction staging and foundation preparation work by BNFL Inc. to commence. DOE-ID will provide the funding for the removal of the structure, foundation, and floor slab. If requested by DOE-ID, LMITCO will remove and disposition any contaminated materials that arise during the C&S removal.

Responsibility Statements

BNFL Inc. will:

- Submit retrieval notification (Retrieval Plan) to DOE-ID at least one year in advance of the planned start of retrieval.
- Work with M&O contractor during construction to minimize disruption of on going waste handling and shipment activities within the TSA.
- Leave space around construction laydown and work areas for M&O small truck and forklift access to the TRUPACT Loading Facility from the North.
- Provide Unreviewed Safety Questions (USQ) or draft changes to affected safety authorization basis documents.
- Submit information to support changes to the existing RWMC RCRA Part B Permit as required to reflect modifications to existing facilities.
- Validate radiation survey results prior to accepting the site, facilities, and equipment.

DOE-ID will:

- Seek continued funding of programs necessary to maintain the condition of property and equipment.
- Seek funding for the removal of the C&S structure and the relocation of waste stored in any Type II storage buildings transferred to BNFL Inc. for construction, in adequate time to complete the work by March 1, 1999.
- Monitor M&O activities through surveillance, conduct operation assessments, and conduct maintenance assessments.
- Keep BNFL Inc. advised of the schedule status of the 3,100 cubic meter project.
- Notify the M&O of BNFL Inc.’s early retrieval plans.
- Provide updates on environmental restoration (ER) activities within the RWMC, including storage module usage, which may affect BNFL Inc. activities.

LMITCO will:

- Continue conduct of operations, conduct of maintenance, preventive maintenance and protection, exercising of equipment, documentation of maintenance history, and maintenance of operating records.
- Maintain RCRA compliance of the Type I and Type II modules until turnover to BNFL Inc.
• Provide BNFL Inc. and DOE-ID with an inventory of all waste containers remaining in accessible storage following completion of the 3,100 cubic meter project.
• Work with BNFL Inc. to allow construction activities within the TSA to proceed without delay or interference. This includes unrestricted traffic access outside of the RWMC fence to the construction areas South of the RWMC fence line.
• Perform radiation surveys (per 10CFR835 Appendix D and the INEEL Radiological Control Manual) of the construction area, property, and GFE to verify the radiological status of the site and equipment prior to release to BNFL Inc.
• Remove the waste stored in the storage buildings designated for BNFL Inc. construction use and place it in other appropriate storage buildings prior to releasing the building.
• Request funding for the installation of a new paved access road to the TRUPACT Loading Facility to the North of the BNFL Inc. construction boundary to replace the original route, which will be blocked by the AMWTP construction boundary.
• As requested, review the BNFL Inc. designs to determine if there is a change to the RWMC Safety Basis using the USQ process.
Section 2
Utilities

Brief Description of Interface

During AMWTP construction and operations, BNFL Inc. will require connections to existing RWMC utility services, including electrical and communication systems. Interfaces are being established to ensure that utility capacities are adequate for AMWTP construction and operations needs, and that affects on the RWMC utility systems are minimized. By identifying utility needs in Phase I, coordination and augmentation of services can be completed in a timely, cost-effective manner.

Electrical

**During Construction:** BNFL Inc. will connect to the existing 12.5 kilovolt (kV) RWMC distribution system for construction power during Phase II using fused disconnects. The maximum anticipated load to be provided during construction is 1,000 kilowatt (kW). A maximum of 1,000 kW (total) with a peak demand not to exceed 115% of the maximum anticipated load can be used by BNFL Inc. AMWTP from the 12.5 kV transmission line. Each separate connection point will be separately metered.

**During Operations:** BNFL Inc. will connect to the 138 kV power line running North of RWMC as indicated on the attached MK Drawing 1-02-54-001. BNFL Inc. will construct a new overhead 138 kV line east of RWMC site to the Southeast corner of the TSA. This new overhead line will connect to a newly-constructed electrical substation in the Southeast corner of TSA area as indicated on the attached MK Drawing 1-02-54-001. BNFL Inc. will distribute power underground from the new electrical substation to the AMWTP Facility. The maximum anticipated load during operations is 7.5 megavolt amperes (MVA) with a peak demand not to exceed 115% of the maximum anticipated load. The interface point between BNFL Inc. and the site M&O contractor will be at the substation after the new power line is installed and has been inspected and accepted by the M&O contractor.

Potable Water

**During Construction:** BNFL Inc. will connect to the existing 4-inch water line near the Northeast corner of the proposed AMWTP Facility with a new 4-inch potable water line. BNFL Inc. will install underground potable water service to a location near the Southeast corner of the proposed AMWTP Facility and will install a connection point for temporary construction trailers and construction use. Estimated maximum load for AMWTP construction use is 100 gallons per minute or a maximum of 8,000 gallons per day.

**During Operations:** BNFL Inc. will connect to the existing 4-inch water line near the Northeast corner of the proposed AMWTP Facility with a new 4-inch potable water line as indicated on the attached MK Drawing 1-02-52-002. Estimated maximum load for AMWTP Facility operations use is 100 gallons per minute or a maximum of 8,000 gallons per day.
Fire Water

During construction and operation: BNFL Inc. will make two connections to the existing 10-inch firewater line running east of the proposed AMWTP area as indicated on the attached MK Drawing 1-02-52-002. One connection is for the new AMWTP Facility fire sprinkler system requiring a 1,100 gallon per minute flow at 64 pounds per square inch (psi) residual pressure. The other connection is for the new AMWTP Facility standpipe requiring 500 gallon per minute flow at 124 psi residual pressure. The BNFL Inc. points of connection will include a back flow preventer in the supply line.

Communications

During Construction: BNFL Inc. will temporarily connect to the RWMC telephone system and the RWMC emergency notification system (including RWMC fire alarm system, RWMC evacuation alarm system, and the RWMC critical incident detection system) to support communications during construction. The planned date for temporary connection to support construction activities is April 19, 1999. BNFL Inc. will coordinate the installation of any telephones, radio systems, antenna, and networked computer systems with the M&O Information Resources organization.

During Operations: BNFL Inc. will connect to the RWMC site communication systems (approximately 100 phone lines are required), the RWMC emergency notification system (including RWMC fire alarm system, RWMC evacuation alarm system, and the RWMC critical incident detection system) and the RWMC computer network. BNFL Inc. will coordinate the installation of any telephones, radio systems, antenna, and networked computer systems with the M&O Information Resources organization.

Sanitary Sewer

During Construction: BNFL Inc. will collect all construction-related sewage in holding tanks. Sewage will be disposed of at the INEEL Central Facilities Area (CFA) sewage treatment plant in accordance with CFA procedures.

During Operations: BNFL Inc. will connect to the existing 4-inch pressure sewer line with discharge from a new sewage grinder pump (60 gallons per minute at connection point or 7,400 gallons per day maximum) as indicated on the attached MK Drawing 1-02-52-002. BNFL Inc. will use existing sewage lagoons South of the TSA area, if available, or add approximately one .50-acre lagoon to operate in parallel to existing lagoons. If the added lagoon is required, effluent will be applied to approximately one acre of tilled land in existing subcontractor lay-down area after completion of construction.

Propane

BNFL Inc. will install two new propane tanks to serve the AMWTP Facility (one 30,000 gallon and one 15,000 gallon tank) as indicated on MK Drawing 1-02-52-005. BNFL Inc. will install underground piping from the propane tanks to the AMWTP treatment building.
Responsibility Statements

BNFL Inc. will:

- Provide a new 138 kV power line tap, construct the new power line from the tap to the proposed AMWTP substation, and construct the new substation feeding the AMWTP Facility.
- Connect to the RWMC telephone system and the RWMC emergency notification system (including RWMC fire alarm system, RWMC evacuation alarm system, and the RWMC critical incident detection system) and distribute those systems within the AMWTP Facility.
- Provide new propane tank(s) and related underground piping serving the AMWTP Facility.
- Submit new propane tank refill rate, size, and location information to DOE-ID for a safety review and assessment of the affects on the RWMC SAR.
- Provide the 12.5 kV lines, equipment, and meters required for construction power.
- Notify LMITCO prior to performing power taps required for temporary construction power and permanent Facility power.
- During the year 2001, revisit the required AMWTP Facility-related sewage treatment requirements after receipt from DOE-ID of the projected RWMC site population count for 2003 with updated projected sewage lagoon capacity information.
- Coordinate with RWMC operations staff regarding the limitations of the deep well recovery.
- Provide updated detailed utility connection and construction information and schedules to DOE-ID and LMITCO by March 1, 1999. All utility connections will be performed with an outage request approved by LMITCO.
- Provide peak and operating electrical load requirements to LMITCO prior to August 1, 1998.

DOE-ID will:

- Grant the right of way east of the TSA for the new electrical power line feed from the 138 kV line tap to the proposed new location for the AMWTP substation (refer to new power line location on attached MK Drawing 1-02-54-001).
- Review the affect of the new AMWTP propane tanks on the RWMC SAR and authorize turnaround to allow timely installation of the new propane tanks.
- Advise BNFL Inc. on January 1, 2001, of the available RWMC sewer lagoon capacities and projected year 2003 RWMC total site population.

LMITCO will:

- Continue to provide and maintain the utilities to the RWMC site and the TSA area within the RWMC site including electrical, potable water, fire water, communications, and sanitary sewer. Propane service to the AMWTP is excluded.
- Provide information on power reliability to BNFL Inc. prior to June 1, 1998.
- Provide the requirements and procedures for use of the CFA sewage treatment Facility
prior to the planned start date of construction, which is May 1999.

- Confirm that the site electrical system will support the operating and peak electrical loads defined by BNFL Inc. by October 1, 1998, to enable BNFL Inc. to complete the Phase II design.
- Coordinate with BNFL Inc. and other RWMC utility users on the scheduling of utility and electrical power outages required for equipment installation, maintenance, and testing.
- Coordinate outage requests for utility connections with BNFL Inc.

Schedule for Utility Connections

Utility connections required to support construction of the AMWTP Facility will be performed between March 1, 1999, and May 1, 1999. Utility service relocations and connections required to support operations of the AMWTP Facility will be performed as needed to support the construction schedule between May 1, 1999, and January 1, 2003. All AMWTP utility connections will be coordinated with other RWMC utility users to plan for and minimize the impact of the outage. Interface points for each utility relative to division of maintenance responsibilities will be addressed in the Phase II interface agreement.
Section 3
Environmental Permits

Brief Description of Interface

It is the intent of this AMWTP MOA section to promote effective environmental permitting activities and seamless transitions at every phase of the AMWTP. Prior to constructing the AMWTP Facility, BNFL Inc. must obtain a State Air Permit to Construct (PTC), a HWMA/Toxic Substance Control Act (TSCA) Permit, a National Emission Standards for Hazardous Air Pollutants (NESHAPS) authorization, and a DOE-ID Environment Safety and Health (ES&H) Authorization. Prior to waste retrieval or AMWTP Facility start-up, the existing RWMC HWMA Storage Permit must be modified to accommodate the storage needs of the AMWTP and the continuing M&O storage needs. Because the AMWTP Facility will be located on the INEEL, Facility permitting requirements will also affect the INEEL Site-Wide Air Operating Permit.

This interface agreement is necessary to:

1) Ensure the appropriate involvement by DOE-ID and the M&O permitting and operations staff,
2) Facilitate the smooth transition of permitted facilities during construction and operations to BNFL Inc.,
3) Provide the necessary support and technical input required for modifications to existing INEEL permits, and
4) Provide a coordinated INEEL interface with regulatory agencies and the public.

Responsibility Statements

HWMA/TSCA Permits

BNFL Inc. will:

- Provide DOE-ID and LMITCO with draft copies of the AMWTP HWMA/TSCA Permit Application and related documentation, allowing adequate time to review the documents and provide written comments.
- Prior to August 6, 1999, provide to DOE-ID and LMITCO for review and comment a draft interim status closure plan/compliance schedule as required by RWMC HWMA Storage Permit condition II.K.6.
- Ensure consistency with existing INEEL permits and environmental authorizations.

DOE-ID will:

- Review the draft AMWTP HWMA/TSCA Permit Application. The purpose of this review will be to: 1) identify inconsistencies with regards to the proposed AMWTP HWMA/TSCA permitting strategies and existing INEEL permitting strategies, 2) provide BNFL Inc. information regarding lessons learned from past environmental
permitting activities at the INEEL, and 3) identify information that may be useful to BNFL Inc. to meet DOE-ID’s AMWTP objectives.

- Inform BNFL Inc. of significant proposed changes to the existing INEEL HWMA Storage Permit that may affect AMWTP objectives and provide supporting documentation for such changes.
- Support the BNFL Inc. HWMA/TSCA Permit Application schedule provided in AMWTP Project Management Plan (PMP) Appendix E (BNFL-5232-PMP-01-Rev 0), provided reasonable review and response time is allowed.
- As requested by BNFL Inc., review Notice of Deficiencies on the AMWTP HWMA/TSCA Permit Application and Regulatory Agency and Public comments.
- Provide to BNFL Inc. by July 1, 1998, a draft Environmental Permits Transition Schedule for review and comment. This schedule will include a description of the specific activities that must be performed by all parties to achieve a transfer of the TSA-RE and the associated interim status HWMA storage units and the applicable portion of the WSF and the RWMC HWMA Storage Permit. This schedule must be finalized by January 1, 1999.
- Provide timely information to BNFL Inc. regarding ER activities that could affect planned BNFL Inc. permits.

LMITCO will:

- Provide historical documents and data requested by BNFL Inc. to prepare the AMWTP HWMA/TSCA Permit Application.
- Inform DOE-ID of significant proposed changes to the existing INEEL HWMA Storage Permit that may impact AMWTP objectives and provide supporting documentation for such changes.
- Provide to DOE-ID by July 1, 1998, a draft Environmental Permits Transition Schedule for review and comment. This schedule will include a description of the specific activities that must be performed by all parties to achieve a transfer of the TSA-RE and the associated interim status HWMA storage units and the applicable portion of the WSF and the RWMC HWMA Storage Permit. This schedule must be finalized by January 1, 1999.

INEEL Air Permit to Construct and NESHAPS Authorization

BNFL Inc. will:

- Provide DOE-ID and LMITCO with draft copies of the AMWTP PTC applications and NESHAPS authorization and related documentation with adequate time to review the documents. Submittal of the AMWTP PTC application and NESHAPS authorization is scheduled for April 1998.
- Propose a method to determine a discrete value for background radiation levels to be used as a baseline for Phases II and III. This method must be approved by DOE-ID.
- Develop a soils disposition plan for DOE-ID approval.
- Ensure consistency with existing INEEL air permits and related documentation.
• Provide information to support DOE-ID’s modifications to the INEEL Title V Air Operating Permit Application.

DOE-ID will:

• Review the draft PTC application and NESHAPS authorization and provide comments to BNFL Inc. The focus of this review will be to: 1) identify inconsistencies with regards to the proposed AMWTP air permitting strategies and existing INEEL air permitting strategies, 2) provide BNFL Inc. information regarding lessons learned from past air permitting activities at the INEEL, and 3) identify information that may be useful to BNFL Inc. to meet DOE AMWTP objectives.
• Inform BNFL Inc. of significant proposed changes to existing INEEL air permits that may affect AMWTP objectives.
• Support BNFL Inc.’s permitting schedule by completing the PTC application and NESHAPS authorization review, provided reasonable review and response time is allowed.
• As requested by BNFL Inc., review regulatory agency comments to the AMWTP PTC application and NESHAPS authorization and BNFL Inc.’s response to regulatory agency and public comments.

LMITCO will:

• Provide historical documents and data requested by BNFL Inc. to prepare the AMWTP PTC application and NESHAPS authorization determination.

DOE-ID Public Reading Room

BNFL Inc. will:

• Notify the DOE-ID Public Reading Room Administrator in writing of the approximate space required for AMWTP documents, the projected schedule for document delivery and the BNFL Inc. Point of Contact for questions related to the documents provided.
• Deliver the documents to the DOE-ID Public Reading Room Administrator at least five working days before the required public availability date. Each delivery will include a transmittal letter that contains an inventory of the documents provided and directions to remove outdated documents (as applicable).

LMITCO will:

• Provide space in the DOE-ID Public Reading Room for the AMWTP environmental documents supplied by BNFL Inc.
• Maintain a record of the AMWTP documents available in the DOE-ID Public Reading Room.
Environmental Interfaces Planned for the Phase II and III AMWTP MOA Updates

The Phase II and III interfaces will be defined in planned updates to the AMWTP MOA. The discussion provided below is for information only. It is not part of the Phase I AMWTP MOA.

HWMA/TSCA Permits

BNFL Inc. will provide timely notification to DOE-ID and cognizant M&O managers to support modifications to the existing RWMC HWMA Storage Permit, including:

- Sufficiently detailed information to meet the requirements of the Idaho Administrative Procedures Act (IDAPA) 16.01.05.012 [40 CFR 270, Subparts D and G] addressing projected BNFL Inc. use of the TSA-RE and WSF Type II storage modules provided as Government-Furnished Facilities. This information will be provided to LMITCO at least 24 months prior to transition, or 16 months prior to the start of retrieval, depending on which event occurs first.

- Sufficiently detailed information to meet the requirements of IDAPA 16.01.05.012 [40 CFR 270, Subparts D and G] addressing BNFL Inc.’s use of the Southeast corner of WMF-635 Type I Module will be provided to the M&O at least 12 months in advance of BNFL Inc.’s modification or utilization of that space. (Reference drawing will be attached under GFE/Utilities).

In addition, interfaces required to address RCRA corrective actions and their impacts to module V of the RWMC permit will be identified in detail in the Phase II AMWTP MOA update.

INEEL Air Permit to Construct and NESHAPS Authorization

BNFL Inc. will provide information to DOE-ID to support modifications to the INEEL’s Title V Permit and Authorization to Construct (ATC). Notification of potential affects will be made no less than eighteen months prior to the INEEL’s ATC modification submittal, and possibly with a greater lead time depending on the required change classification. Notifications will also be made in accordance with contractual requirements and permitting schedules contained in the BNFL Inc. AMWTP PMP.

DOE-ID Public Reading Room

BNFL Inc., DOE-ID, and LMITCO will continue to coordinate utilization of the DOE-ID Public Reading Room.

Environmental Monitoring and Reporting

During Phase III, environmental affects from AMWTP operations will be included in overall INEEL affects for purposes of reporting radiological releases from air emissions, groundwater monitoring, and potential affects on attainment areas due to hazardous releases to air. Therefore, reporting and record-keeping interface agreements will have to be established between the BNFL Inc., DOE-ID, and
LMITCO. Reporting and monitoring areas to be detailed in subsequent updates to the AMWTP MOA include:

- Groundwater Monitoring Services and Analysis
- Perimeter Air Monitoring Analysis and Reporting
- Meteorological Monitoring (NOAA System)
- Preparation of required INEEL environmental reports
- Maintenance of INEEL environmental databases.

**Transition/Closure of Permitted Facilities**

Interface requirements for this section will be detailed in subsequent updates to the AMWTP MOA.
Section 4
Waste Characterization

Brief Description of Interface

As discussed in Section 1, LMITCO will provide to BNFL Inc. information regarding the physical location of each waste container in the storage modules identified as being transferred to BNFL Inc.

Waste characterization data currently resides in several historical databases, real-time radiography (RTR) tape libraries, Engineering Design Files (EDF), and numerous technical reports. As the M&O contractor proceeds with the shipment of 3,100 cubic meters of TRU waste to WIPP, new waste characterization data will become available.

Responsibility Statements

BNFL Inc. will:

- Submit written requests for the required characterization data.
- Identify the technical reports and other document distribution lists for BNFL Inc. inclusion.

LMITCO will:

- Assist BNFL Inc. in identifying characterization data and documents of interest and respond to BNFL Inc.'s data and document requests in a timely manner. Where possible, the characterization data will be transmitted in an electronic form.
- Following approval by the export control representative, add BNFL Inc. to the distribution list for modifications and updates to identified technical reports and other characterization documents.
- Provide copies of each report and supporting documentation required to meet RWMC HWMA Storage Permit conditions: II.K.1, II.K.2, II.K.4 and II.K.5.
Section 5
INEEL Site Treatment Plan

Brief Description of Interface

The STP is an agreement between DOE-ID and the State of Idaho that defines how, when, and where DOE-ID plans to treat INEEL mixed waste. It also lists INEEL mixed waste that will be sent to other DOE facilities for treatment, and non-INEEL waste that will be sent to the INEEL for treatment. DOE-ID can propose changes to the STP at the quarterly meetings with the State of Idaho. DOE-ID and the State of Idaho have identified STP Project Managers that serve as the points of contact and are responsible for maintaining the Plan. The LMITCO STP Point of Contact is responsible for supporting the DOE-ID STP Project Manager.

Several non-INEEL waste generators have expressed an interest in having their mixed waste treated at the AMWTP Facility. To do so, they must first have their waste added to the STP. However, BNFL Inc. cannot commit to treating non-INEEL waste until DOE-ID exercises Option 1 of the AMWTP Facility contract. This is DOE's option to proceed with constructing and operating the AMWTP. Option 1 cannot be exercised until the completion of Phase I activities. Acceptance of non-INEEL waste also requires DOE-ID to exercise Option 2 of the AMWTP contract. Option 2 addresses treatment of waste in addition to the initial 65,000 cubic meters. Prior to DOE's decisions on Options 1 and 2, BNFL Inc. can advise non-INEEL generators on the potential acceptability of certain wastes for treatment in the AMWTP.

The following agreements apply to Phases I, II, and III of the AMWTP. Additional areas for agreement may be identified in the future and will be evaluated during the review and update of this AMWTP MOA.

Responsibility Statements

BNFL Inc. will:

- Inform the DOE-ID STP Project Manager of any proposed changes to the AMWTP Waste Acceptance Criteria (WAC) that could affect the INEEL STP. These changes will be provided in sufficient time for DOE-ID to prepare the necessary STP modifications on the schedule agreed to by the State of Idaho.
- Provide the DOE-ID STP Manager a point of contact for all STP issues, activities, and documents that will require BNFL Inc. action.
- Provide the LMITCO STP Point of Contact with a progress report on each AMWTP-related STP milestone on a quarterly basis starting one year before the STP milestone completion date.
DOE-ID will:

- Provide BNFL Inc. with a copy of any proposed change to the STP that may affect the AMWTP. These proposed changes will be provided in adequate time for review and discussion prior to DOE-ID formally submitting these proposed changes to the State of Idaho Division of Environmental Quality (DEQ) for consideration.

LIMITCO will:

- Provide BNFL Inc. with a copy of the Quarterly STP Meeting agenda in adequate time for BNFL Inc. to review the agenda and consider attending the meeting.
- Maintain BNFL Inc. on the controlled distribution list for the INEEL STP.
- Starting June 30, 1998, provide BNFL Inc. with an updated copy of the IMWI database on a quarterly basis.
Section 6
Emergency Response and Preparedness

Brief Description of Interface

The purpose of this section is to identify the interfaces required to provide emergency response and preparedness services to the AMWTP. These interfaces will minimize hazards to human health and the environment in the event of an emergency, and will ensure an expedient, effective, and safe response to an incident at the AMWTP.

Though not an integral requirement of the Phase I AMWTP MOA, the emergency response services and preparedness interfaces identified in this section of the Phase I AMWTP MOA are necessary for AMWTP permitting requirements. The intent is to ensure that the necessary emergency support services for the AMWTP will be provided in accordance with Federal, State and DOE requirements. Finalized interface details concerning emergency response and preparedness services for Phases II and III of the AMWTP will be included in the planned updates of the AMWTP MOA. Where the AMWTP MOA conflicts with the AMWTP Environment, Safety, and Health Program Operating Plan (ESHPOP), the AMWTP ESHPOP takes precedence.

Services included in this AMWTP MOA are: 1) Fire Department emergency services such as fire suppression, emergency medical response, hazardous materials emergency response, confined space rescue, and search and rescue, 2) life safety systems, 3) decontamination, 4) emergency notification and reporting systems, and 5) mutual aid agreements with local emergency response and care providers. In accordance with the AMWTP contract, the availability of these emergency response services is mandatory. LMITCO currently provides these services to the RWMC.

Phase I

During Phase I, there are no special emergency response services required by BNFL Inc. When visiting the RWMC during an emergency, BNFL Inc. representatives will follow either the existing INEEL rules they received in their ES&H training or the direction provided by their assigned escort.

Phase II and III

The following Phases II and III interfaces have been included as part of the Phase I AMWTP MOA to demonstrate to DOE and the State of Idaho that provisions have been made to effectively handle an incident should one occur at the AMWTP Facility. These interfaces have been identified to meet contractual and permitting requirements. Additional details concerning the roles and responsibilities of each party in regards to emergency response and preparedness services will be included in the planned Phase II and III updates to the AMWTP MOA.
INEEL Fire Department Support

In Phases II and III, the INEEL Fire Department will provide emergency response to fires and to injured personnel 24 hours per day. The INEEL Fire Department will provide fire suppression, fire rigs, and emergency medical technicians who stabilize injured personnel and transport them to medical facilities via ambulance. Emergency response includes structural fire fighting, ambulance emergency medical services, hazardous material response, incident mitigation, and wildland fire fighting.

Medical Services

In Phases II and III, the INEEL M&O will provide emergency medical treatment at the CFA Dispensary.

Emergency Notifications

In Phases II and III, BNFL Inc. will coordinate with the INEEL M&O Emergency Preparedness organization to ensure that the AMWTP is fully integrated into the INEEL emergency notification process.

Local Mutual Aid Agreements

Prior to the start of construction, DOE will include the AMWTP in all mutual aid agreements with local police departments, fire departments, hospitals, and emergency response teams from the surrounding municipalities and counties including Bonneville, Butte, Clark, Jefferson, and Bingham. DOE will confirm this inclusion in the next renewal of the agreements planned for the Spring of 1998.

Fire Water Systems

The existing fire water tank and supply system presently serving the RWMC is adequate for AMWTP purposes. The detailed fire water system interface is addressed in this AMWTP MOA under Section 2, Utilities.

Interfaces Planned for Phase II and III AMWTP MOA Updates

The Phase II and III interfaces will be defined in detail in planned updates to the AMWTP MOA. The discussion provided below is not complete at this time. It is provided for information only and is not part of the Phase I AMWTP MOA. The current level of safety provided to LMITCO employees will not be diminished by AMWTP construction.

Emergency Planning, Preparedness, and Response from INEEL (drills, planning, event classification, notification, responsibility, incident management)

In Phase II, BNFL Inc. will notify the RWMC Shift Supervisor and the DOE-ID RWMC Facility Director of incidents or emergencies at the AMWTP Facility. AMWTP personnel will provide information to the INEEL and RWMC emergency response organizations as appropriate regarding any incident at the AMWTP Facility.
Event classification and notifications will be the responsibility of BNFL Inc. and will be coordinated with the INEEL M&O during Phase II of the AMWTP. AMWTP personnel and the RWMC Emergency Coordinator will coordinate emergency response and any required evacuations as appropriate.

During Phase III, all incidents and emergencies will be reported to BNFL Inc.'s Emergency Coordinator, who will deal directly with the appropriate INEEL and RWMC emergency response organizations and initiate the appropriate notification process. BNFL Inc. will all notify the DOE-ID RWMC Facility Director.

In Phase III, Operational Emergency Event Classifications and response actions shall be directed by AMWTP procedures. These occurrence classifications will be performed in accordance with DOE Order 151.1, change 2, and DOE Order 232.1. In addition, unplanned (off-normal, non-contained) releases of hazardous waste or waste constituents that threaten human health or the environment originating from within the AMWTP shall be reported and mitigated in accordance with the AMWTP HWMA/RCRA Permit Contingency Plan. This plan, as far as possible, has been written to be consistent with the M&O Emergency Preparedness Manual with respect to the notifications provided to offsite agencies.

BNFL Inc. personnel will develop, coordinate, and issue press releases regarding incidents involving the AMWTP. Coordination will occur with DOE-ID Communications and INEEL Public Affairs prior to the distribution of press releases.

Emergency communication information is contained in Section 2, Utilities - Communications.

BNFL Inc. will participate in INEEL site-wide and RWMC site emergency response drills and exercises. BNFL Inc. will also conduct drills for personnel assigned to the AMWTP.

The AMWTP emergency plan and contingency plan will be provided to the M&O Contractor for information. BNFL Inc. will provide one copy of the approved AMWTP plans to the appropriate onsite and offsite organizations. BNFL Inc. will consider developing an AMWTP-specific addendum to the INEEL base Emergency/RCRA Contingency Plan.

**INEEL HAZMAT Team**

In Phases II and III, the INEEL Fire Department HAZMAT team will mitigate the spread of spills involving hazardous or radioactive materials (Phase III only) at the AMWTP Facility. Cleanup of the spill and decontamination of Facility equipment and surfaces will be performed by the construction contractor (Phase II) or BNFL Inc. (Phase III). BNFL Inc. plans to establish an incident response team (IRT) and will consider the use of the INEEL IRT training program.

The HAZMAT team will perform air monitoring for hazardous chemical substances, and mitigate the spread of a spill by using neutralizing agents and absorbent materials. BNFL Inc. will provide any radiological technicians for incidents involving or within the radioactive material areas under their control. If the hazard has the potential to extend beyond their areas of control, BNFL Inc. will request radiological field monitoring services from LMITCO.
INEEL Support Fire Fighters/Fire Department

In Phases II and III, the INEEL Fire Department will provide emergency response to fires and to injured personnel 24 hours per day. The INEEL Fire Department will provide fire suppression, fire rigs, and emergency medical technicians who stabilize injured personnel and transport them to medical facilities via ambulance. Emergency response includes structural fire fighting, ambulance emergency medical services, hazardous material protection, incident mitigation, and wildland fire fighting.

In Phase II, the Fire Department will use the RWMC pre-incident plan. In Phase III, BNFL Inc. will share writing of a pre-incident plan with the INEEL M&O.

Emergency support from the Fire Department will also be provided for rescue operations in Phases II and III.

Emergency Medical Services (Emergency Response - ambulance and paramedics, Emergency Communications)

During Phases II and III, the INEEL M&O emergency medical services are provided to the BNFL Inc. construction contractor and to the AMWTP employees. These include ambulance, use of emergency medical technicians, and use of decontamination and medical facilities.

Decontamination of Injured Personnel

During Phase III, BNFL Inc. will use Facility decontamination stations, and the decontamination station at the CFA dispensary if contaminated injured personnel are transported to the dispensary.

Occurrence Reporting

The AMWTP construction contractor will be responsible for AMWTP occurrence reporting during Phase II. The RWMC Emergency Coordinator will be informed of incidents arising due to AMWTP Facility construction. Further notifications to onsite and offsite agencies will be coordinated between BNFL Inc., DOE-ID, and the INEEL M&O as needed.

During Phase III, BNFL Inc. will follow its own occurrence reporting procedure. As far as possible, this procedure will be consistent with the occurrence reporting procedures presently established for the INEEL.

Communications, Alarms, Life Safety Systems

During Phase II, the BNFL Inc. Team will coordinate its design, selection, and installation of fire detector, alarm, control panels, annunciators, and notification systems with the INEEL M&O Life Safety Organization to ensure that the selected systems are compatible with the systems currently utilized at the INEEL.
During Phase III, in accordance with the AMWTP contract, BNFL Inc. will provide a portion of the funding required to maintain the site-wide (non-facility-specific) communications and alarms network. This network integrates the INEEL Warning Communication Center, site evacuation systems, mobile monitors/alarms, and maintains hand-held radios and pagers.

Prior to the start of Phase III, a BNFL Inc. subcontract will be awarded to cover AMWTP (Facility-specific) requirements for Life Safety Systems (responsibilities will be similar to those performed by the Life Safety Systems Organization of the INEEL M&O). This subcontract will provide the services for fire alarm, fire extinguishers, fixed fire suppression systems, and emergency notification system (ENS) maintenance for the AMWTP facilities at the RWMC.

**Inclusion into the INEEL Emergency Plan/RCRA Contingency Plan**

During Phase II, the AMWTP construction contractor's emergency plan will direct actions required to address emergencies within the bounds of the AMWTP fence-line, including notification to and coordination with the INEEL Fire Department. Emergency response actions for incidents that extend beyond the construction fence will be coordinated with the RWMC Emergency Coordinator.

During Phase III, the AMWTP will follow the RCRA Contingency Plan approved by DEQ for the AMWTP operations (the AMWTP Emergency Response Plan approved by DOE for AMWTP operations will be the same plan). This plan will provide appropriate interface points with the INEEL M&O emergency response organizations. BNFL Inc. will provide copies of the AMWTP Emergency Response Plan to the cognizant M&O professionals to ensure consistency in INEEL operations.

**Inclusion in existing mutual aid agreements with local police and fire departments, hospitals, and emergency response teams**

DOE will include the AMWTP in all mutual aid agreements with local police departments, fire departments, hospitals, and emergency response teams from the surrounding municipalities and counties including Bonneville, Butte, Clark, Jefferson, and Bingham. DOE will confirm this inclusion in the next renewal of the agreements planned for Spring 1998.
Appendix A
Advanced Mixed Waste Treatment Project
Future AMWTP MOA Sections and Potential Interfaces
Potential Future BNFL Inc.
Requests for Proposals (RFP) for Services
Available LMITCO Organizations Interested in
Offering Services to BNFL Inc.
Future AMWTP MOA Sections and Potential Interfaces

Section 7: Health and Safety

Common recognition of training
Shared health and safety programs

Section 8: Safeguards and Security

Common INEEL security concerns
AMWTP security services
Badge requirements
Site-specific training
Security plan for foreign nationals
Export control requirements
Potential Future BNFL Inc.
Request for Proposals (RFP) for Services

Health and Safety

HAZCOM Training
HAZWOPER Training
Respirator Fit and Training
OSHA-Related Training (e.g., hoisting and rigging)
Work-Related Physicals and Medical Tests

Radiation Protection

Radiation Worker Training
Dosimetry Services
Bioassay Services
Personal Protective Equipment (purchase and service)
Instruments and Alarms (purchase and calibration service)

Other Support Services

Janitorial
Vehicle Maintenance
Transportation and Freight Services
Fuel for Vehicles
Laundry
Analytical Laboratory Services
Property Management Services
Available LMITCO Organizations Interested in Offering Services to BNFL Inc.

The following organizations have identified services not elsewhere included in the MOA that BNFL Inc. may be interested in using. A detailed list will be developed and compared to BNFL Inc.'s potential Request for Proposals (RFPs). In any case, BNFL Inc. will be made aware of the LMITCO capability.

- Emergency Preparedness
- Facility, Utility and Maintenance
- Health and Safety
- Procurement

- RWMC Operations
- Radiation Protection
- Safeguards and Security
- Telecommunications
Appendix B
Advanced Mixed Waste Treatment Project
Information Exchange Interfaces
Information Exchange Interfaces

Land Use Planning:

Construction fences, boundaries and temporary buildings
Building numbering schemes
Plot plan layouts for inclusion in other INEEL land use planning documents

EM Integration:

AMWTP capabilities and plans for input to other DOE planning documents
BNFL Inc. participation or other input to EM Integration Workout Sessions
Appendix C
Advanced Mixed Waste Treatment Project
Points of Contact for Phase I AMWTP MOA
# Points of Contact for Phase I AMWTP MOA

## BNFL Inc. Points of Contact for the AMWTP MOA

<table>
<thead>
<tr>
<th>Section</th>
<th>Point of Contact</th>
<th>e-mail</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health &amp; Safety/Emergency Preparedness</td>
<td>Candice Jierree</td>
<td><a href="mailto:cjierree@rmrshq.com">cjierree@rmrshq.com</a></td>
<td>303-215-1103</td>
</tr>
<tr>
<td>Environmental Permits/Reports</td>
<td>Malone Steverson</td>
<td><a href="mailto:malone_steverson@cpqm.saic.com">malone_steverson@cpqm.saic.com</a></td>
<td>208-528-2149</td>
</tr>
<tr>
<td>Operations</td>
<td>Gary Trohkimoinen</td>
<td><a href="mailto:gtrohkimoinen@rmrshq.com">gtrohkimoinen@rmrshq.com</a></td>
<td>303-215-1103</td>
</tr>
<tr>
<td>Retrieval</td>
<td>Cal Ozaki</td>
<td><a href="mailto:cozaki@bnflinc.com">cozaki@bnflinc.com</a></td>
<td>208-524-8484</td>
</tr>
<tr>
<td>Site Treatment Plan EM Integration Land Use Planning Safeguards &amp; Security</td>
<td>John Mayberry</td>
<td><a href="mailto:jmayberry@bnflinc.com">jmayberry@bnflinc.com</a></td>
<td>208-524-8484</td>
</tr>
<tr>
<td>Radiation Protection</td>
<td>Candice Jierree</td>
<td><a href="mailto:cjierree@rmrshq.com">cjierree@rmrshq.com</a></td>
<td>303-215-1103</td>
</tr>
<tr>
<td>Construction Management Utilities Property &amp; Equipment</td>
<td>Jerry Naaf</td>
<td><a href="mailto:Jerry_naaf@mk.com">Jerry_naaf@mk.com</a></td>
<td>208-386-5205</td>
</tr>
<tr>
<td>Overall Coordination</td>
<td>Cathy Middleton</td>
<td><a href="mailto:cmiddleton@bnflinc.com">cmiddleton@bnflinc.com</a></td>
<td>208-524-8484</td>
</tr>
</tbody>
</table>
# Points of Contact for Phase I AMWTP MOA

## DOE-ID Points of Contact for the AMWTP MOA

<table>
<thead>
<tr>
<th>Section</th>
<th>Point of Contact</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health &amp; Safety</td>
<td>Roger Wilbur</td>
<td>526-3508</td>
</tr>
<tr>
<td>Environmental Permits and Reports</td>
<td>Greg Hula (Overall)</td>
<td>526-9899</td>
</tr>
<tr>
<td></td>
<td>Jack Depperschmidt (RCRA/TSCA)</td>
<td>526-5053</td>
</tr>
<tr>
<td></td>
<td>R. (Woody) Russell (NESHAPS/PTC)</td>
<td>526-0561</td>
</tr>
<tr>
<td>Safeguards and Security</td>
<td>R. (Bob) Coombs (Alarms and Badging)</td>
<td>526-2302</td>
</tr>
<tr>
<td></td>
<td>R. (Bob) Benson (Security Education, Foreign Nationals)</td>
<td>526-8943</td>
</tr>
<tr>
<td></td>
<td>Neil Rice (INEEL Security/Protective Forces)</td>
<td>526-2429</td>
</tr>
<tr>
<td></td>
<td>George Poovey (ESHPOP, OPSEC)</td>
<td>526-5902</td>
</tr>
<tr>
<td>Facility Services Support</td>
<td>Geoff Beausoleil (RWMC)</td>
<td>526-5558</td>
</tr>
<tr>
<td></td>
<td>Alan Dudziak (Central Operations)</td>
<td>526-7027</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>Clay Ogilvie (Emergency Response)</td>
<td>526-5190</td>
</tr>
<tr>
<td></td>
<td>Patrick Smith (Emergency Medical/Fire)</td>
<td>526-0194</td>
</tr>
<tr>
<td>Radiation Protection</td>
<td>Ken Whitham</td>
<td>526-4151</td>
</tr>
<tr>
<td>RWMC Waste Management</td>
<td>Geoff Beausoleil (Operations)</td>
<td>526-5558</td>
</tr>
<tr>
<td></td>
<td>Jerry Wells (TRU Program)</td>
<td>526-5296</td>
</tr>
<tr>
<td>Construction Management</td>
<td>Geoff Beausoleil</td>
<td>526-5558</td>
</tr>
<tr>
<td></td>
<td>Art Mantlik</td>
<td>526-4583</td>
</tr>
<tr>
<td>Site Treatment Plan</td>
<td>Don Rasch</td>
<td>526-1511</td>
</tr>
<tr>
<td>EM Integration</td>
<td>C. Brooks Weingartner</td>
<td>526-1366</td>
</tr>
<tr>
<td>Utilities</td>
<td>David Herrin (Electrical)</td>
<td>526-3013</td>
</tr>
<tr>
<td></td>
<td>C. Mike Bennett (Water)</td>
<td>526-3734</td>
</tr>
<tr>
<td></td>
<td>Geoff Beausoleil (All others)</td>
<td>526-5558</td>
</tr>
<tr>
<td>Procurement</td>
<td>David Letendre</td>
<td>526-1950</td>
</tr>
<tr>
<td>Property &amp; Equipment</td>
<td>Glen Waugh (General)</td>
<td>526-3712</td>
</tr>
<tr>
<td></td>
<td>Geoff Beausoleil (RWMC-specific)</td>
<td>526-5558</td>
</tr>
<tr>
<td>Land Use Planning</td>
<td>Dan Shirley</td>
<td>526-9905</td>
</tr>
<tr>
<td>Overall Coordination/Other Organizations</td>
<td>Jan Chavez</td>
<td>526-5968</td>
</tr>
</tbody>
</table>
# Points of Contact for MOA Phase I

## LMITCO Points of Contact for the AMWTP MOA

<table>
<thead>
<tr>
<th>Section</th>
<th>Manager</th>
<th>Point of Contact</th>
<th>OV</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health &amp; Safety</td>
<td>K. O’Donnell</td>
<td>Corrinne Jones</td>
<td>crj</td>
<td>526-8079</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pete Scobby</td>
<td>pts2</td>
<td>526-4752</td>
</tr>
<tr>
<td>Environmental Permits &amp; Reports</td>
<td>C.L. Tellez</td>
<td>Phil Gray</td>
<td>pbg</td>
<td>526-7934</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Jim Jackson</td>
<td>jpj</td>
<td>526-7929</td>
</tr>
<tr>
<td>Safeguards &amp; Security</td>
<td>J.J. Noon</td>
<td>Tom Middleton</td>
<td>tm4</td>
<td>526-0718</td>
</tr>
<tr>
<td>Facility Services Support</td>
<td>J.H. Cox</td>
<td>Don Whittaker</td>
<td>dw4</td>
<td>526-3904</td>
</tr>
<tr>
<td>Emergency Preparedness</td>
<td>J.Fleischman-Gay</td>
<td>Jim Colson</td>
<td>jcolson</td>
<td>526-9174</td>
</tr>
<tr>
<td>Radiation Protection</td>
<td>G.L. Courtney</td>
<td>G.L. Courtney</td>
<td>courgl</td>
<td>526-4422</td>
</tr>
<tr>
<td>RWMC Waste Management</td>
<td>T.L. Clements</td>
<td>Bob Korenke</td>
<td>rek</td>
<td>526-4466</td>
</tr>
<tr>
<td>Construction Management</td>
<td>W.A. Baxter</td>
<td>Dave Wilkins</td>
<td>dww</td>
<td>526-7495</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Larry Torgerson</td>
<td>ldt</td>
<td>526-7853</td>
</tr>
<tr>
<td>Site Treatment Plan</td>
<td>J.D. Mousseau</td>
<td>Monte Davis</td>
<td>mvd</td>
<td>526-9526</td>
</tr>
<tr>
<td>EM Integration</td>
<td>G.B. Frandsen</td>
<td>Dale Luke</td>
<td>lukede</td>
<td>526-3610</td>
</tr>
<tr>
<td>TRU</td>
<td></td>
<td>Gregg Goltz</td>
<td>gg1</td>
<td>526-7801</td>
</tr>
<tr>
<td>MLLW</td>
<td></td>
<td>Rod Remsburg</td>
<td>rer</td>
<td>526-3398</td>
</tr>
<tr>
<td>Utilities</td>
<td>P.S. Yela</td>
<td>Carl Jones</td>
<td>cmj</td>
<td>526-3169</td>
</tr>
<tr>
<td>Procurement</td>
<td>R.W. Lazenby</td>
<td>Sandy Hemphill</td>
<td>slh2</td>
<td>526-4649</td>
</tr>
<tr>
<td>Property &amp; Equipment</td>
<td>P.A. Sanders</td>
<td>Chuck Collins</td>
<td>cc1</td>
<td>526-5244</td>
</tr>
<tr>
<td>Land Use Planning</td>
<td>T.P. Moriarity</td>
<td>Ren Smith</td>
<td>lds</td>
<td>526-1182</td>
</tr>
<tr>
<td>AMWTP Support</td>
<td></td>
<td>Jim Schafer</td>
<td>jjs</td>
<td>526-9699</td>
</tr>
<tr>
<td>Project Manager</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Appendix D
Advanced Mixed Waste Treatment Project
MK Drawings
### WASTE MATERIAL RETRIEVAL AND TRANSFER TRAFFIC TABLE (SEE NOTE 4)

<table>
<thead>
<tr>
<th>Material</th>
<th>Source Location</th>
<th>Destination Location</th>
<th>Vehicle Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACROTEMS</td>
<td>ACRETEMS</td>
<td>ACRETEMS</td>
<td>ACRETEMS</td>
<td>ACRETEMS</td>
</tr>
</tbody>
</table>

### ACRONYMUS
- ACROTEMS
- ACROTEMS
- ACROTEMS
- ACROTEMS

### TRAFFIC PLAN

#### OPERATIONS MATERIAL SUPPLY TRAFFIC TABLE (SEE NOTE 4)

<table>
<thead>
<tr>
<th>Material</th>
<th>Source Location</th>
<th>Destination Location</th>
<th>Vehicle Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACROTEMS</td>
<td>ACRETEMS</td>
<td>ACRETEMS</td>
<td>ACRETEMS</td>
<td>ACRETEMS</td>
</tr>
</tbody>
</table>

#### ACRONYMUS
- ACROTEMS
- ACROTEMS
- ACROTEMS
- ACROTEMS