



## Work Breakdown Structure Dictionary

### **1000.03 Remote Handled Waste**

#### **1000.03.01 Remote Handled Waste**

This control account has one work package with the scope described below.

##### **1000.03.01.03 RH Historical TRU**

This work package is essentially a place holder within the Work Breakdown Structure (WBS) in the event RH-TRU waste requires managing by an entity other than the Idaho Treatment Group, LLC (ITG). ITG anticipates treating the waste historically managed as RH-TRU such that the resultant waste is not RH-TRU. The treatment of this waste is budgeted in the appropriate control accounts (e.g., 1000.04.03, Treatment Facility).

In the event RH-TRU waste does require managing by other than ITG, a Baseline Change Proposal (BCP) will be prepared, as necessary.

### **1000.04 Waste Processing Activities**

#### **1000.04.00 Integrated Production Planning**

The scope of work for this control account is divided into three work packages: Container Moves Planning, Strategic Planning and Offsite Waste Planning. The description for each work package is as follows.

##### **1000.04.00.00 Container Moves Planning**

The Container Moves team provides planning and coordinating waste movement for process feedstock and disposition; prepares and issues container move sheets, and evaluates current and future feedstock needs, storage requirements and available waste; translates and flows-down annual and monthly goals to daily production plans. Additionally, container moves coordinates scheduling activities with operations and data validation personnel; establishes, manages and sustains the Advanced Mixed Waste Treatment Facility (AMWTF) and non-facility feedstock support activities, processes, databases, reporting, and logistics.

##### **1000.04.00.01 Strategic Planning**

The Strategic Planning work package scope includes establishing and communicating the vision and strategies for the ITG work execution priorities. This scope includes the technical oversight of activities and the resolution of complex technical issues.

##### **1000.04.00.02 Offsite Waste Planning**

The Offsite Waste Planning work package scope includes coordinating incoming receipts and outgoing shipments of offsite waste including the completion of the Sludge Repackaging Project (SRP) and the Accelerated Retrieval Project (ARP). This scope includes review of all required data to ensure incoming receipts meet the criteria of AMWTF procedures and Waste Acceptance Criteria (WAC).

#### **1000.04.01 Retrieval**

This control account addresses retrieval activities of the remaining legacy waste that will take place within the Retrieval Containment Enclosure (RCE), using the Internal Containment Enclosure (ICE) as required. The RCE provides containment within the footprint of WMF-636 and encompasses all of the



## Work Breakdown Structure Dictionary

remaining unretrieved waste containers on Pad 1, Cell 1, Cell 2, and unloading of the cargo containers. The ICE is a containment tent with localized ventilation that can be moved into position via the light bridge to provide additional control for containers that require repackaging operations. The box and drum work packages (04.01.04 and 04.01.05) were combined into one control account (04.01.02) and are measured on retrieved cubic meters (m<sup>3</sup>). This was done to allow Retrieval to be flexible in the feed it provide to the Treatment Facility (when boxes are required, more emphasis is placed on boxes than drums, and vice versa). Additionally, the Cargo Container Extraction (CCE) was separated from the drum retrieval work package and established in a separate work package (04.01.08). This control account also includes work packages for Soil Removal Operations (04.01.07) and Retrieval Shared Supplies (04.01.09).

### **1000.04.01.02 Box and Drum Retrieval Operations**

The scope of box and drum retrieval operations for the ITG is to retrieve stored waste in boxes and drums from the Cell 1 and Cell 2 located in the RCE of the Transuranic Storage Area-Retrieval Enclosure (TSA-RE). A portion of these containers are breached, damaged, degraded, or of questionable structural integrity. ITG will take appropriate measures to manage these containers safely and effectively to minimize the spread of radioactive contamination and hazardous materials, and exposure to workers.

### **1000.04.01.06 Soil Removal Operations**

ITG will disposition the soil from the barrier between Cells 1 and 2, as well as a portion of the soil berm remaining on the east and west sides of Cell 2 in accordance with SSDP-01, AMWTP Soil Sampling and Disposition Plan for the TSA-RE.

The soil will be packaged into FP-81 soil bags or other approved containers. Final disposition of the soil will be based upon the condition of the soil and the requirements of the potential disposal locations.

### **1000.04.01.07 Retrieval Maintenance**

The scope of Retrieval Maintenance is to provide resources and support to the TSA-RE retrieval process for all process equipment electrical, mechanical, or instrumentation involved in the retrieval scope of work.

### **1000.04.01.08 Cargo Container Drum Extraction**

A total of 104 cargo containers still contain waste drums. The drums will be removed from the cargo containers in the Contamination Control Enclosure (CCE) on Pad-R of the TSA-RE. A devoted crew will work to complete the scope of work. Based on previous cargo retrieval activities, the waste drums in the cargos are expected to have container integrity issues ranging from surface rust to complete degradation of the container.

### **1000.04.01.09 Retrieval Shared Supplies**

This work package provides the budget for equipment and higher-dollar items which are shared within the control account. Specifically, the PPE, drums, and Mini Brokk Excavator nonlabor items are in this work package. The Mini Brokk Excavator is only budgeted in FY14.



## Work Breakdown Structure Dictionary

### 1000.04.02 Characterization

Characterization of waste is scoped in the following work packages: Characterization Management, Operations Real Time Radiography (RTR), Operations Nondestructive Assay (NDA), Drum Venting and Headspace Gas (HSG), and Characterization Maintenance. The scope for each of these work packages is provided below.

#### 1000.04.02.00 Characterization Management

This WBS element includes management and supervision of Characterization Operations and personnel associated with the activities described in the WBS elements below. This WBS element also includes management and supervision of Waste Movement Operations and personnel associated with the activities in control account 04.13. Work includes management support, monthly reporting, variance analysis, waste tracking, timekeeping, and personnel assessments. In addition to management resources, this account also captures required training, travel and office equipment not captured in the other work packages.

#### 1000.04.02.04 Operations RTR

This WBS element includes resources directly related to operation of the RTR equipment for characterization of waste at AMWTP. Work includes operation of the various RTR units as well as generation of raw data (batch data reports, audio/video records, etc.) for validation by Waste Programs (04.12) personnel.

#### 1000.04.02.05 Operations NDA

This WBS element includes resources directly related to operation of the NDA equipment for characterization of waste at AMWTP. Work includes operation of the various NDA units as well as generation of raw data (batch data reports, audio/video records, etc.) for validation by Waste Programs (04.12) personnel.

This work package also includes the subcontract with Central Characterization Program (CCP) for NDA of AMWTP waste that has been treated and packaged at the Sludge Repackaging Project (SRP).

#### 1000.04.02.06 Drum Venting & HSG

##### Venting

This WBS element includes resources directly related to operation of the Drum Vent System in WMF-634 and the Drum Vent Facility, WMF-635, which is located within WMF-628.

This work package also includes the purchase of the filter vents for installation into waste containers and gases used in the venting equipment as non-labor costs.

##### Head Space Gas Sampling

This WBS element also includes the contract with CCP to perform flammable gas analysis of the headspace of waste containers that will be shipped to the Waste Isolation Pilot Plant (WIPP).



## Work Breakdown Structure Dictionary

This work package also includes the subcontract with the CCP for certification of AMWTF waste that has been treated and packaged at the SRP.

### **1000.04.02.13 Characterization Maintenance**

This WBS element includes the preventive maintenance (PM), corrective maintenance (CM) and general repairs to characterization equipment and instrumentation. Equipment used to perform maintenance on characterization equipment is also included in this work package.

### **1000.04.03 Treatment Facility**

ITG will process all TRU debris waste amenable to compaction through the AMWTF, along with as much Mixed Low-Level Waste (MLLW) as economically feasible. The NDA units in building WMF-634 will be used primarily to determine and record the fissile content tracked by the Fissile Tracking System (FTS) in the AMWTF, and will typically be used to make the TRU or MLLW feed determination. Silvers or direct feed drums that assay as MLLW will be routed to the Supercompactor, resulting in MLLW product drums, which are disposed at either Nevada National Security Site (NNSS) following onsite macroencapsulation, or the Bulk Waste Facility in Clive, UT, for treatment and disposal. Silvers or direct feed drums that assay as TRU will be routed to TRU product drums, and certified for disposal at WIPP.

#### **1000.04.03.00 Treatment Facility General**

This WBS element includes all project management resources directly utilized in supporting the AMWTF operations. Work includes management support, baseline preparation, monthly reporting, variance analysis, waste tracking, timekeeping, personnel assessments and the overall expertise to the plant. In addition to management resources, this account also captures the required training, travel, and office equipment not captured in the other work packages.

#### **1000.04.03.04 Boxline Operations**

This work package addresses the processing of TRU boxes in the AMWTF, including all PPE needed to perform the scope. After characterization activities, boxes are selected for feeding to the AMWTF. Opened boxes are then conveyed into one of the three box processing troughs. Operators situated outside of the boxlines, using remotely operated equipment in the boxlines remove the contents from the boxes, size reduce it as necessary, sort and segregate it as necessary, and place it into compaction drums (silvers) which are situated below the waste troughs. Loaded silvers are then sent to supercompaction. Included in this work package is manual processing of large and bulky items.

#### **1000.04.03.05 Supercompactor Operations**

This work package includes the size reduction scope of Supercompactor operations. The Supercompactor is housed within a glove box containment, and is capable of processing both direct feed 55-gal drums and silvers from Box Line operations. Pucks (compressed drums or silvers) are then moved into the puck handling glove box, and are available for selection to be placed into 100-gal product drums. Selection is by the Process Optimization System (POS), and is based on factors such as weight, height of puck and radionuclide content. The objective of POS is to maximize the filling of the 100-gal product drums. This work package also includes operating the Treatment Facility Un-overpacking Process (TFUP). This process un-overpacks 55-gallon drums from 85-gallon drums in the Treatment Facility and supplies additional direct feed drums to the supercompactor.



## Work Breakdown Structure Dictionary

### **1000.04.03.06 Treatment Facility Maintenance**

This work package includes the PM and CM that directly supports operation of the AMWTF.

### **1000.04.04 Payload Assembly**

This WBS element includes the following work packages: Payload Assembly Management, Payload Assembly Operations, Empty Cargo Transport, Maintenance Payload/Shipping.

#### **1000.04.04.00 Payload Assembly Management**

This work package includes activities associated with the management and oversight of the MLLW/LLW payload assembly and any other payload assemblies which are required. Payload Assemblies generated by the ITG include those prepared for shipment out of the State of Idaho to Treatment, Storage, and Disposal Facilities (TSDF) and those prepared for shipment to other Idaho National Laboratory (INL) contractors.

#### **1000.04.04.06–Payload Assembly Operations**

This work package includes all project resources directly utilized in supporting shipment of MLLW/LLW either stored at AMWTF or process generated by AMWTF operations and the activities associated with MLLW/LLW operations. Work scope includes the movement of certified waste containers within operations area, container integrity inspections, rolling stock operations, MLLW/LLW payload assembly activities, and final trailer loading to meet off site shipping requirements to the appropriate TSDF. Nonlabor resources include pallets, lumber, containment pools, and other consumables associated with the assembly and shipment of legacy and process generated MLLW/LLW.

#### **1000.04.04.07 - Empty Cargo Transport**

This WBS element includes activities associated with the transport of empty cargo containers to CWI. This scope of work is performed inside WMF-636 and includes the wrapping of the empty cargo containers, preparing for transport, and loading the cargos onto trailers.

#### **1000.04.04.08 – Maintenance Payload/Shipping**

This WBS element includes the PM, CM, and general repairs to payload assembly equipment and instrumentation.

### **1000.04.05 Transportation**

This WBS element includes the following work packages: MLLW Transportation / Shipping, and Other Transportation / Shipping.

#### **1000.04.05.02 MLLW Transportation/Shipping**

This WBS element includes the transportation of all MLLW and LLW (process-generated and legacy) for disposal at offsite locations, such as NNS and commercial disposal facilities such as EnergySolutions (ES) Clive, Utah, TSDF.



## Work Breakdown Structure Dictionary

Following certification of such wastes for disposal (not included in this WBS element), the waste will be marked, labeled, and manifested to meet all applicable regulations and requirements, including U.S. Department of Transportation (DOT) regulations, and WIPP WAC. The scope includes labor and nonlabor elements (including consumables, training, and transportation) for completing this scope.

### **1000.04.05.03 Other Transportation/Shipping**

This WBS element includes resources directly utilized in the transportation and shipping of waste from other sites, including the shipment of the Los Alamos National Laboratory (LANL) waste currently at AMWTP. This WBS also includes the miscellaneous shipments of environmental or safety samples and other regulated shipments which are made. The scope includes labor for completing this scope. Nonlabor for miscellaneous supplies required for these shipments are found within 1000.04.05.02.

### **1000.04.06 MLLW/LLW Operations**

This WBS element includes the following work packages: MLLW/LLW Management, Legacy MLLW Debris, Treatment Legacy MLLW Inorganic Solids, Onsite Macroencapsulation, Newly Generated MLLW, and Newly Generated LLW.

#### **1000.04.06.00 MLLW/LLW Management**

This WBS element includes all project management resources directly utilized in supporting the treatment and disposal of MLLW and LLW either stored at AMWTP or process-generated by AMWTP operations. Work includes management support, monthly reporting, variance analysis, waste tracking, timekeeping, and personnel assessments. In addition to management resources, this account also captures the required training, travel, and office equipment not captured in the other work packages.

#### **1000.04.06.01 Legacy MLLW Debris**

This work package captures the resources necessary to certify, review, and approve MLLW containers in the INL Integrated Waste Tracking System (IWTS) for offsite treatment and disposal. Treatment and disposal costs with ES are included within this work package for treatment and disposal of MLLW debris.

#### **1000.04.06.02 Treatment Legacy MLLW Inorganic Solids**

This work package captures the resources necessary to certify, review, and approve MLLW containers in the INL IWTS for offsite treatment and disposal. Treatment and disposal costs with ES are included within this work package for MLLW inorganic solids.

#### **1000.04.06.03 Onsite Macroencapsulation**

This work package element captures the resources necessary to certify, review and approve MLLW containers in the IWTS for onsite treatment followed by offsite disposal at the NNSS. The work package also includes the labor, equipment and supplies to perform onsite macroencapsulation at the AMWTP. These supplies include High Density Polyethylene (HDPE) Macro Packs and other miscellaneous supplies and services related to this work package.



## Work Breakdown Structure Dictionary

### **1000.04.06.04 Newly Generated MLLW**

This work package captures the resources necessary to certify, review, and approve MLLW containers in the INL IWTS for offsite treatment and disposal. Treatment and disposal costs with ES are included within this work package for process-generated MLLW that is not treated onsite at the AMWTP.

### **1000.04.06.05 Newly General LLW**

This work package captures the resources necessary to certify, review, and approve process-generated LLW containers in the INL IWTS for offsite treatment and disposal. Treatment and disposal costs with ES are included within this work package for newly generated LLW that is not treated onsite at the AMWTP.

### **1000.04.07 Operations Management**

This WBS provides resources for ensuring safe and compliant operation of all equipment, structures, components, activities, and processes associated with the AMWTP. The Nuclear Assurance team ensures Integrated Safety Management System (ISMS) principles and functions are integrated into all processes.

#### **1000.04.07.00 Operations Management**

This WBS provides resources for ensuring safe and compliant operation of all equipment, structures, components, activities, and processes associated with AMWTP site. The Operation Management organization reports functionally to the Plant Manager.

#### **1000.04.07.01 – Operations Support Variable Pay**

This WBS provides tracking of variable pay. Variable pay accounts for increases in operator technicians pay due to Powered Air-Purifying Respirator (PAPR) entries, Level B entries, and for other qualifications.

#### **1000.04.07.02 – Working Window Planning**

This work package has the scope for Work Window Planning, which includes maintaining an 8-week rolling schedule in support of the project mission.

### **1000.04.12 Waste Programs**

The scope of this control account is divided into six work packages.

#### **1000.04.12.00 Waste Programs Management**

This WBS element includes management and supervision of Waste Programs personnel associated with the activities described in the WBS elements below. Work includes management support, monthly reporting, variance analysis, waste tracking, timekeeping, and personnel assessments. This work package also includes subject matter experts who oversee waste programs aspects of characterization equipment operations; provide training and guidance related to characterization, validation and reconciliation; and investigates issues.

In addition to management resources, this account also captures required training, travel and office equipment not captured in the other work packages of this control account.



## Work Breakdown Structure Dictionary

### **1000.04.12.01 TRU Validation – Level 1**

This WBS element includes resources associated with Independent Technical Review (ITR) and Expert Technical Review (ETR) of the data reports generated by Characterization (04.02) and Treatment Facility (04.03) Operations for TRU waste. This work includes evaluation of audio/video records, electronically stored data and paperwork generated from RTR, visual examination (VE) and NDA characterization of TRU waste to ensure that WIPP requirements are met. Work also includes the generation, evaluation and disposition of non-conformance reports (NCRs), which deal with any conditions associated with characterization that do not meet requirements.

### **1000.04.12.02 TRU Validation – Level II/Recon**

This WBS element includes Site Project Manager Designees (SPMD) data review for TRU waste containers that have completed Level I validation. This work includes evaluation of the batch data reports generated by Characterization Operations and validated by Level I Validation to ensure that WIPP site-level requirements are met. Work also includes the generation, evaluation and disposition of NCRs, which deal with any conditions associated with characterization that do not meet requirements.

To allow for certification of the containers, the SPMDs also perform reconciliation evaluations, which ensure that, for each container, all of the relevant characterization, quality and paperwork requirements for disposal of waste at WIPP have been met. During reconciliation activities, data evaluation is performed on a container basis, rather than on a batch basis. For containers to be completed through a reconciliation lot, any NCRs that were previously generated are required to be closed.

The SPMDs also perform other data evaluation and review activities for AMWTP. These activities may include identification of waste for direct-feed to the AMWTF compactor and development of virtual multi-container overpacks, which are built by Waste Movement (04.13) personnel and imported to the AMWTF boxlines.

### **1000.04.12.03 TRU Certification**

This WBS element includes resources associated with certification of the data for TRU waste containers prior to their shipment to WIPP. This work includes ensuring that characterization and paperwork requirements for shipping of waste have been met as well as generation and evaluation of container and payload data in the WIPP Waste Data System (WDS).

### **1000.04.12.04 Source Term Development**

This WBS element includes resources associated with development of radiological characterization data (source terms), typically used for shipping waste to MLLW/LLW TSDFs. This work is performed under subcontract with Pajarito Scientific Corporation (PSC) and includes both Expert Technical Review (ETR) of NDA data for boxed waste imported to the AMWTF as well as development of source terms for individual containers and groups of containers that will be shipped to MLLW/LLW TSDFs.

Work subcontracted to PSC also includes an upgrade to the Retrieval Box Assay System (RBAS) so that it will be able to provide WIPP-certifiable data.



## Work Breakdown Structure Dictionary

### **1000.04.12.06 Acceptable Knowledge**

This WBS element includes resources associated with collection, documentation and evaluation of acceptable knowledge (AK) for AMWTP waste, as well as evaluation of container characterization data for determination of waste stream assignment. Work involved with AK includes generator baseline development, waste stream summary compilation, development and maintenance of information regarding physical, radioisotopic and chemical characteristics of AMWTP waste and submittal of reports documenting the above information to the United States (US) Environmental Protection Agency (EPA), Department of Energy (DOE) and WIPP. Work also includes evaluation of individual containers of waste (especially containers of unknown waste) and determination of the proper classifications (e.g., waste stream, waste matrix code, hazardous waste numbers, etc.) for disposal. The majority of this work is done for TRU waste destined for WIPP, but much of the work also has applicability to MLLW/LLW destined for other TSDFs.

### **1000.04.13 Waste Movement**

This control account has one work package with the scope described below.

#### **1000.04.13.00 Waste Movement**

This work breakdown structure element includes all resources directly utilized in safely storing and moving waste around the AMWTP. Work includes operation of rolling stock used for transportation of waste containers between AMWTP processes. Purchase/lease of equipment used for waste movement operations is included in this work package. Waste Movement personnel also assemble multi-container overpacks for treatment in the AMWTF and overpack containers with compromised integrity in the storage units.

### **1000.05.01 Project Management**

The scope of work for this control account is divided into four work packages: Project Management, Human Resources, Project Controls, and Finance / Accounting.

#### **1000.05.01.00 Project Management**

This WBS element includes senior management and leadership (key personnel) over the AMWTP work scope. As such, this element encompasses all scope and resource requirements to deploy the ITG key personnel. The key personnel include the President and Project Manager, Waste Programs Manager and Deputy Project Manager, Environment Safety and Health (ES&H) Director, Plant Manager, General Counsel, and Vice President Business Services. Other resources in this work package include the Communication Manager, Performance Reporting Manager, Internal Audit Manager and the Ethics and Compliance Officer (Manager).

#### **1000.05.01.01 Human Resources**

This work package includes Human Resources (HR) support for the AMWTP contract scope of work including a human resource management (HRM) program, equal opportunity program (EOP), human resources liaison to line management, benefits, labor relations, and compensation.



## Work Breakdown Structure Dictionary

### **1000.05.01.02 Project Controls**

This work package element includes Project Controls (i.e., Earned Value Management System [EVMS], change control process, and project reporting).

The EVMS is maintained in compliance with the Department of Energy Order 413.3C and the American National Standards Institute (ANSI)/Energy Information Administration (EIA) 748. A tailored approach is utilized for the EVMS based on earned value management (EVM) protocol.

### **1000.05.01.03 Financial/Accounting**

This work package provides resources required to support cost collection and financial reporting to the DOE and company management as well as the maintenance of the company financial systems. Financial systems and processes include: Accounts Payable, General Ledger, Banking, Payroll, Benefits Accounting, Cash Management/Treasury functions, Corporate Accounting, Cost Reporting, and other financial services.

### **1000.05.05 Procurement**

This WBS element includes procurement support for the AMWTP.

#### **1000.05.05.00 Procurement**

This WBS element includes Procurement support for the AMWTP contract scope of work including the prime contract administration, staff augmentation administration, commodities procurement, materials distribution, inventory control, warehouse operations, fleet management, and mandatory services procured from other INL site contractors.

### **1000.05.08 Central Engineering**

This WBS element includes the following work packages: Central Engineering Management, System Engineering, Nuclear Safety, and Work Control.

#### **1000.05.08.00 Central Engineering Management**

This WBS element includes management and administrative staff to support all activities in the WBS elements below. This work package provides engineering support and services for the AMWTP. The Engineering Manager will oversee all engineering, criticality safety, nuclear safety, and work planning and control activities for AMWTP.

##### **1000.05.08.01 System Engineering**

This WBS element includes system engineering support and services for the AMWTP contract scope of work including engineering standards and expectations, configuration management, engineering design, systems engineering, fire protection engineering, drafting and modeling, approval of all facility modifications, and support to maintenance for the continued reliable operations of plant facilities and equipment to safely and compliantly achieve AMWTP mission and goals



## Work Breakdown Structure Dictionary

### **1000.05.08.02 Nuclear Safety**

The scope of this WBS element is to provide criticality engineering and nuclear safety support and services to AMWTP, including revising and maintaining the Documented Safety Analysis (DSA) and Technical Safety Requirements (TSRs), and performing unreviewed safety question (USQ) reviews.

### **1000.05.08.03 Work Control**

The scope of this WBS element is to ensure safe and efficient work control under the existing work planning and control process including preventative and corrective maintenance.

### **1000.05.09 Information Technology**

This control account has one work package and is described as follows.

#### **1000.05.09.00 Information Technology**

This WBS element includes information technology (IT) support for the AMWTP contract scope of work including plant instrumentation and controls, distributed control systems, IT infrastructure, cyber-security, and WTS.

### **1000.06 Industrial Safety / Industrial Hygiene and Environmental Safety and Health Program**

#### **1000.06.01 ISIH**

This control account has one work package and is described as follows.

##### **1000.06.01.00 ISIH**

ITG will conduct activities in compliance with contract safety and environmental protection requirements including, but not limited to, those listed on the List of Applicable DOE Directives. ITG will take actions necessary to preclude accidents and injuries and keep worker exposures as low as reasonably achievable. ITG will promptly respond to operational events.

ITG will provide technical support to line management, workers, and junior IS/IH staff regarding the implementation of IS/IH requirements and company procedures. The main emphasis will be daily support of operation activities in response to emergent requests and scheduled work on the plan of the day (POD).

##### **1000.06.02 ES/H**

This account has one work package and is described as follows.

##### **1000.06.02.00 ES/H**

ITG will maintain an ES&H program to ensure the protection of workers, the public, and the environment. ITG will operate the ES&H program as an integral, but visible, part of how business is conducted. This includes prioritizing work planning and execution; establishing clear ES&H priorities;



## Work Breakdown Structure Dictionary

allocating resources to address programmatic and operational considerations; collecting and analyzing samples; correcting noncompliance; and addressing hazards for AMWTP facilities, operations, and work.

ITG will adopt existing regulatory required implementation plans and processes, such as Title 10 of the Code of Federal Regulations (CFR) 835, Occupational Radiation Protection; 10 CFR 830, Quality Assurance Plan; 10 CFR 851, Worker Safety and Health Program; 10 CFR 850, Chronic Beryllium Disease Prevention Program; the USQ process; and a compliant ISMS and Environmental Management System (EMS). ITG may elect to update the adopted plans and resubmit them for DOE approval.

The scope of work for this WBS element also includes application of specific Radiological Safety Programs which maintain robust dosimetry and bioassay programs.

ITG will establish and maintain a single ISMS as required by Department of Energy Acquisition Regulations (DEAR) 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution. The ISMS program will ensure that safety and environmental protection considerations are integrated throughout the entire work planning and execution process (including subcontracts as appropriate). ISMS will extend through the execution of individual work packages where jobsite safety is ensured for each worker. ITG will ensure that the principles of ISMS serve as the foundation of the implementing mechanisms for work at the site. ITG will also ensure that the structure of requirements to achieve nuclear safety is based on sound principles such as defense in depth, redundancy of protective measures, robust technical competence in operations and management oversight, and compliance with DOE directives embodying nuclear safety requirements.

### **1000.07 Quality**

#### **1000.07.01 Quality Assurance**

This control account has one work package and is described as follows.

##### **1000.07.01.00 Quality Assurance**

This work package covers the ITG quality assurance (QA) program. ITG will maintain a compliant QA program that complies with 10 CFR 830, DOE O 414 and is based on the current ANSI/American Society of Mechanical Engineers (ASME) Nuclear Quality Assurance-1 (NQA-1) standard. In addition, the QA Program ensures compliance with the TRU and MLLW treatment and disposal sites requirements.

ITG will maintain QA and software QA programs necessary to improve compliance, safety, and productivity.

#### **1000.07.02 Training**

This control account has one work package and is described as follows.

##### **1000.07.02.00 Training**

This WBS element provides resources to maintain operational, facility/process activity, and nonoperational training programs for the AMWTP. Facility/process activity training programs include such topics as hazardous waste operator and emergency response (HAZWOPER), radiological safety and



## Work Breakdown Structure Dictionary

fall protection. The non-operations training programs include any general training not included in the operational training programs or facility/process activity training programs.

Activities for training programs include preparing course material and presenting training to appropriate personnel including maintenance, radiological safety, and any other required support personnel. Activities also include providing resources to maintain all training records and providing management and administrative support to the training organization.

### **1000.08 Environmental Compliance**

#### **1000.08.01 Environmental Compliance Program**

This control account has one work package and is described below.

##### **1000.08.01.00 Environmental Compliance Program**

ITG will maintain and revise, as necessary, all applicable environmental requirements, permits, and compliance documents including, but not limited to, the Hazardous Waste Management Act (HWMA), Resource Conservation Recovery Act (RCRA) permits, and the Idaho Toxic Air Pollutant and Clean Air Act air permits. Permit compliance includes maintaining all personnel, training, equipment, facilities, and procedures associated with permit revisions.

### **1000.09 Laboratory Analysis**

#### **1000.09.02 Analytical Laboratory**

This control account has one work package and is described as follows.

##### **1000.09.02.00 Analytical Laboratory**

This work package covers the costs associated with the laboratory analysis support work needed for operation of the AMWTP ACL. The ACL performs the radiochemical analysis required by the WIPP hazardous waste facility permit (HWFP) on RH-TRU waste. This analysis is only a requirement for TRU waste disposal. The ACL will be transitioned to CWI by October 1, 2014.

### **1000.10 Facility/Maintenance**

#### **1000.10.01 Facility Maintenance**

This control account has one work package and is described as follows.

##### **1000.10.01.00 Facility Operation and Maintenance**

The scope of work for this control account is to maintain and improve, as necessary, all AMWTP equipment, facilities, and utilities to maximize performance and ensure that they are fully operational throughout the contract period.

An overriding aspect of work performed within this work package is a detailed description of processes and work activities. The Work Processes within this work package are to ensure safe, reliable facility operations to include, Work Control, surveillances, and Maintenance.



## Work Breakdown Structure Dictionary

The maintenance activities for operational equipment within Retrieval, Characterization, Treatment Facility, and Payload Assembly is budgeted in a work package within the operational control accounts. Maintenance for the balance of plant (e.g., buildings, outside areas) and Planning for all maintenance work is performed within 1000.10.01.

### **1000.14 Records Management**

#### **1000.14.01 Document Services**

This control account has two work packages: Records Management and Document Services.

##### **1000.14.01.00 Records Management**

This WBS element includes all Records Management (RM) labor resources required to establish the responsibilities, requirements, and processes for managing and storing documents and records generated at the AMWTP. This WBS element also covers an ITG records management system compliant with all federal regulatory requirements, including records management requirements in 36 CFR 1220–1236.

Records Management labor coordinates the methodology and responsibilities for ensuring requirements are evaluated, and if applicable, integrated into implementing documents and work processes. The Records Management process provides direction for demonstrating requirements implementation through requirements roll down implementation matrices controlled through the Document Control and Records Management systems.

##### **1000.14.01.010 Document Services**

Documents are required to safely and effectively manage, perform, and assess. Using the graded approach, management identifies those documents needed to accomplish these objectives and determine the level of control required. Controls include activities such as preparation, review, approval, distribution, usage, availability, revision, and disposal of documents. Document Services focus in the control process for documents is to ensure external review where appropriate such as DOE and Carlsbad Field Office (CBFO) notices/correspondence for review, posting documents for use and RM program including the final QA checks and approvals.

The Document Services function also includes identification and processing requirements for the review and approval of specific documents requiring DOE-ID, CBFO, or NNSS acceptance. AMWTP electronic databases are used in conjunction with the required instructions in order to support real time online delivery of controlled documents.

### **1000.15 Safeguards/Security/Counterintelligence**

#### **1000.15.01 Safeguards/Security/Counterintelligence**

This control account has one work package and is described as follows.

##### **1000.15.01.00 Safeguards/Security/Counterintelligence**

This WBS element covers establishing and maintaining security plans, as required by DOE directives, and coordinate regularly with the INL contractor, as needed, to ensure appropriate levels of protection against:



## Work Breakdown Structure Dictionary

unauthorized access; theft, diversion, or loss of custody of nuclear materials; espionage; loss or theft of classified information or Government property; and hostile acts that may cause unacceptable adverse impacts on national security or the health and safety of DOE and contractor employees, the public, and the environment.

ITG Emergency Management resides within the Safeguards and Security organization. ITG will develop and maintain all AMWTP Emergency Management Plans and Procedures. ITG will conduct training and exercise programs to protect personnel, environment, and property in the event of an emergency. ITG will coordinate with the INL contractor for support and to ensure the appropriate levels of protection are met.