

U. S. DEPARTMENT OF ENERGY
ROCKY FLATS PLANT
ENVIRONMENTAL RESTORATION PROGRAM WEEKLY REPORT
WEEK ENDING JULY 16, 1993

Section I - Interagency Agreement (IAG)

OU 1 - 881 Hillside-Phase III Resource Conservation and Recovery Act (RCRA) Facility Investigation/Remedial Investigation (RFI/RI)

Remedial Investigation (RI)

One meeting is being held this week with the Department of Energy (DOE), the Environmental Protection Agency (EPA), and the Colorado Department of Health (CDH) on the Final RI report. The meeting is further discussion of the contaminants for the OU1 site. Work on the RI report is being slowed due to the continuing debate between the three parties as to how to proceed on the Contaminants of Concern (COC) determinations.

OU1, 881 Hillside Interim Measures/Interim Remedial Action (IM/IRA) Treatment Building 881

Effluent Tank T-207 is currently being filled. Total Dissolved Solids (TDS) results of T-206 were received and were found to be 245 parts per million (ppm). This result is now well below the applicable, relevant and appropriate requirements (ARAR) and T206 can be discharged. A portion of T206 will be discharged into the wetland area in order to provide the new vegetation with the water. The wetland is currently extremely dry due to the recent lack of precipitation. T205 is now full and ready to be sampled for discharge.

The results for the decontamination water that was held for cooling and retreatment are still pending. Resin from each of the ion exchange columns was sent to the manufacturer (Sybron) for evaluation of resin capacity.

Several flow failures of Pump 102 (French Drain collection well pump) have been noted in the past couple of weeks. A new pump will be ordered in case a spare is needed, and the old pump will be removed, inspected, and repaired or replaced. Pump 101 remains operational and is continuing to pump french drain water to the treatment facility.

Total Treated Ground Water for OU1

Total Groundwater this week	14,000 gallons
Total treated to date	1,445,000 gallons

Tests on Pumps

Facilities Operations has completed tests on pumps P101 & P102 at the French drain for OU1. Pump P102 has been tripping the starter overloads and testing with a megohmmeter indicates loss of insulation values to the point that requires replacement of the unit. Pump P101 was tested to provide a base line for future reference in trouble shooting that pump. A complete report with all the test information was written for our records with a copy to the OU1 management.

OU 2 - 903 Pad, Mound, East Trenches Area

Change control for the Subsurface Interim Measures/Interim Remedial Action (IM/IRA) and RI work packages is scheduled for July 16, 1993. Additional funds will be acquired to move contracting for the treatability studies into Fiscal Year (FY) 93, to complete the soil vapor surveys and to post the Americium Zone.

Remedial Assessment

The revised comments for Technical Memorandum No 6 (TM-6), Modeling, will be transmitted to DOE this week. TM-6 is expected to be approved by the agencies. The Contaminant of Concern TM (TM-9) and Toxicity Assessment TM (TM-10) were delayed due to ongoing OU 1 discussions.

Four of the six A-series wells have been sampled. One contained a low level of contamination, three others were clean. The remaining two wells may not contain sufficient water to develop and sample within the month timeframe specified in the work plan. Two drill rigs remain onsite, one active, one on standby pending analytical results of the A-series wells. A B-series well is currently being drilled next to the A-series well containing the low level of contamination. Slug testing has been completed for three wells.

A small release of water occurred at newly installed well 22593 on July 9, 1993, at 9.30 am. During compressed air drilling operations at an adjacent location 10 feet north of the well, a fracture developed or was opened between the well and the drilling site. Compressed air was introduced into the existing well and two to three gallons of water were ejected. This well had recently been sampled and the water did not contain "F" listed waste. Therefore, the RCRA contingency plan was not implemented. A critique meeting was held on July 9, 1993.

Subsurface IM/IRA

The scope of work has been finalized for implementation and operation of the Mobil Soil Vapor Extraction Unit (MSVEU). The test location area was walked to identify where the wells and equipment would be located. A preliminary site map will be developed.

A meeting was held with the Facilities Operations Management (FOM) staff to identify action items and resolution including:

- Disposal of groundwater produced during testing
- Required analyses of groundwater to allow disposal
- Buffer zone land use permit
- Requirements for a storage area for drill cuttings, extracted groundwater, HEPA filters, and GAC filters

Field work was completed on the Baseline OU 2 Subsurface IM/IRA Soil Vapor Survey (SVS), however, demobilization of the field laboratory is still in progress. Also the preparation of a field report on the baseline soil vapor survey at the 903 pad is still in progress.

The second soil vapor survey field report on the Mound Area (Individual Hazardous Substance Site [IHSS] 113) has been received. This report includes figures with concentration isopleths for primary contaminants as well as analytical results for each sampling point. The Mound Area and the 903 Pad both had volatile concentrations exceeding 10 parts per million (ppm). One sample from the east side of IHSS 113 (The Mound Area) had a concentration of 16 ppm of tetrachloroethane and a sample from the north side of IHSS 113 had a concentration of 5.4 ppm of 1,1-dichloroethane. Preliminary results indicate that these could be separate plumes. The higher concentrations at the Mound Area were at the edge of the IHSS, thereby reinforcing the need for making additional measurements to further define these areas.

All of the samples from the 903 Pad Area were below 10 ppm except for one of the samples south of the pad. The sample location is actually off the pad just south of the south eastern corner of the asphalt. The sample had a concentration of 27 ppm of tetrachloroethane. As with the mound, this sample was taken at the edge of the IHSS and the survey area. Further sampling is needed to further define the soil gas plume.

Efforts continue to modify the existing subcontract to cover the detailed survey. Enough data has been collected now to define the scope of the detailed soil vapor survey and based on action levels in the work plan the scope will consist of additional sampling locations in all of the IHSS's covered under the baseline survey plus complete a survey at IHSS 111 1

Surface water IM/IRA

The OU 2 Surface Water IM/IRA Field Treatability Unit discharged approximately 7,000 gallons water with an average pH of 11 on July 10, 1993. This water did not contain "F" listed waste and the RCRA contingency plan was not implemented. However, the regulatory agencies were notified.

The Draft OU 2 Surface Water IM/IRAP Treatability Study Report was delivered to the Agencies on July 13, 1993, as per the approved schedule. This is an Interagency Agreement (IAG) deliverable.

Total Treated Surface Water for OU2

Treated Surface Water this week	167,700
Total Treated Water at FTU	16,861,800

OU 3 - Offsite Areas

A Statement of Work is being developed to procure a subcontractor for weed control activities on the Settlement Agreement property. These weed control activities will include mowing and a fall application of a broad spectrum herbicide. The weed control is necessary to limit the competition from weed species and enhance the growth of more desirable plant species.

A contract modification is being developed to adjust resources required to prepare the RI Report. As individual tasks to produce the report are more clearly identified, resources need to be readjusted within the contract to respond to these changes.

A meeting was scheduled for Thursday, July 15, 1993, with EPA and CDH to discuss the schedule extension request for the Draft and Final RI Reports. EPA would like to see the information on the access permits required for offsite sampling. The difficulty in obtaining the access permits is a factor in requesting the schedule extension. This meeting also discussed the regulatory agency comments on TMs -1 and -2.

The Area of Concern (AOC) document has been revised based on regulatory agency comments. This AOC document is scheduled for submittal to DOE by July 16, 1993.

OU 4 - Solar Evaporation Ponds Phase I RFI/RI Program

Crews continue to collect water level measurements twice monthly on Phase I boreholes completed as piezometers, piezometer nests, and RCRA monitoring wells within OU 4.

Vadose zone monitoring continues with the collection of water samples from lysimeters and neutron monitoring.

Data evaluation continues for data collected from Phase I investigation in support of OU 4 RFI/RI Report.

SPRP transmitted Final Technical Memorandum(TM) #3 of the OU 4 Final Phase I RFI/RI Work Plan, Environmental Evaluation, to DOE, RFO on Thursday, July 8, 1993.

A Horizontal Drilling Technical Memorandum continues to be developed in support of the Phase I RFI/RI investigation.

OU 5 - Woman Creek

Wellpoints for groundwater sampling at four seeps, and soil sampling at those same locations were scheduled for completion last week, but were not, they will be completed this week

Water level measurements will be taken along Woman Creek on Monday and Tuesday

OU 6 - Walnut Creek

The Modeling TM comments from DOE and EG&G are being incorporated into the draft final for submittal to the agencies. Sixteen copies of the Draft Final Exposure Scenarios TM has been supplied to DOE for delivery to EPA and CDH

Toxicity sampling of the Walnut Creek stream segments during base flow and during a storm event was required in TM 1. The storm event toxicity sampling was not performed because sample bottle preparation was accidentally omitted. All other chemical sampling was performed during the storm event. A meeting is being arranged with EPA, CDH, and DOE to discuss the data that have been collected and the necessity of the storm event toxicity sampling. The meeting was scheduled for last week but was canceled.

OU 7 - Present Landfill

Written concurrence was requested June 17, 1993, from RFO to pursue the renegotiation strategy. A draft of this strategy was faxed to the CDH and EPA project leads at the request of RFO project management. The initial response has been favorable and a meeting has been requested to finalize this effort. A meeting will be scheduled for next week to begin negotiations with the regulatory agencies regarding re-scoping the OU 7 IAG schedule. Written concurrence from RFO is necessary to implement this.

Work continues on finalization of an OU 7 specific COC data evaluation process flow. The draft has verbal approval from DOE and a draft was sent to CDH at the request of DOE to begin the resolution process. RFO will issue written guidance to begin data evaluation using the new process flow developed. This new process flow deviates from the original work plan, however, the background comparison process in the Phase I Work Plan is identical to the process rejected by the regulatory agencies for OUs 1 and 2.

OU 8 - 700 Area

The revised Health and Safety (H&S) Plan for implementation of non-intrusive field work for the Industrial Area Operable Units (IA OUs), OUs 8, 9, 10, 12, 13, 14, was delivered to EG&G on July 1, 1993. EG&G completed the internal review of the H&S Plan on July 13, 1993. Comments will be delivered to the subcontractor for revision prior to delivery for a final draft to RFO. Two complete copies of the H&S Plan will be delivered to RFO when EG&G's review is complete.

OU 9 - Original Process Waste Lines (OPWL)

The second set of negotiations for the IA OUs subcontract was held on July 9, 1993. The letter contract is in process to complete the scope. The contract is scheduled to be awarded by July 16, 1993. The delay in awarding the contract has pushed the field work schedule by approximately 11 weeks. The implementation of the IA OU fieldwork is being expedited to try and recover some of the delay.

OU 9 will meet the Plant Change Control Board on July 16, 1993, for increased FY93 funding for early start of Tank Inspection and Sampling.

OU10 - Other Outside Closures

High Purity Germanium (HPGe) surveys for OU10 and OU12 IHSS's located within the 400/800 Area building complex began on July 13, 1993. It is anticipated that no further delays will be encountered due to equipment failure. The CDH project representative for OU's 9 and 10 requested a site visit on July 14, 1993, to observe the HPGe equipment in action.

Final contract negotiations for the Industrial Area OU field work with Jacobs Engineering Group (JEG) was held on Friday, July 9, 1993. The full contract award is expected to be made to JEG sometime during the week of July 12, 1993. It is hoped that any schedule impacts can be minimized if the contract is awarded immediately after negotiations. (See OU8 Highlights for additional information)

Waste Removal Status for IHSS's 170/174 and 176

A letter from DOE, RFO was received by RPM on July 12, 1993, indicating that the remaining materials stored around the boundaries of the PU&D yard (IHSS 170/174) and the S&W laydown yard (IHSS 176), must be removed in order to complete all OU10 Phase I RFI/RI field assessments, as outlined in the approved OU10 workplan. This problem was discussed between the RPM project manager for OU10 and Plant Services Management immediately after the removal work within the IHSS boundary was completed. At that time, no additional funds were to be allocated in FY93 for removing this material. Funds for removing the materials stored around the IHSS will be included in the FY94 funding request. The deadline of August 1, 1993, for providing a response and planned activities for removing the remaining storage materials will be completed as indicated in the DOE, RFO memo.

OU11 - West Spray Field

EG&G is requesting that DOE forward information concerning rescoping of the OU 11 Field Sampling Plan (FSP) to the regulatory agencies for their approval of the revisions and revised milestone date (change of submittal of the Phase I RFI/RI Report from September 24, 1994, to submittal of the Combined Phases RFI/RI Report in November 1994).

The EG&G Statistical Applications Department submitted their first draft of the revised surface soil sampling section of the FSP on July 15, 1993.

OU12 - 400/800 Area

The second set of negotiations for the IA OUs subcontract was held on July 9, 1993. The letter contract is in process to increase to full amount and complete scope. The contract is scheduled to be awarded by July 16, 1993. The delay in awarding the contract has pushed the field work schedule by approximately 11 weeks. The implementation of the IA OU fieldwork is being expedited to try and recover some of the delay.

The OU 12 FY94 Draft Work Package funding levels are under the target amount due to intrusive activities being tied to Decontamination and Decommissioning (D & D)/Transition activities. Development of an FY94 integrated resource-loaded schedule and an evaluation of integrating the work packages is scheduled to be developed over the next month. Acceleration of intrusive activities into FY94 is being investigated.

Informal discussions amongst the Project Managers for the Integrated OUs regarding the estimate of work that will be completed at year's end and IHSS-intrusive activities that could be performed during 1994 have been in progress. Different costing and scheduling scenarios continue to be developed.

The statement of work (SOW) for implementation of the Industrial Area environmental evaluation (EE) is being developed. One EE will be conducted for the entire Industrial Area but will support the information required in the Phase I RFI/RI Work Plans for OUs 4, 8, 9, 10, 12, 13 and 14. The implementation will be conducted by using the OU 9 EE.

High Purity Germanium (HPGe) radiation surveys began on July 13, 1993, in the 400 Area. Technical difficulties with the detectors has created delays of approximately ten days. RPM is working with Environmental Science & Engineering (ES&E) personnel to reduce the impact of these delays.

OU 13 - 100 Area

Final Revision of the OU 13 Work Plan is being drafted for transmittal to RFO on July 18, 1993. A memo to Building 123 Lab, discussing funding for the completion and revision of the Laboratory HPGe Procedures was prepared and sent on Friday July 16, 1993. It authorizes Szydlowski to use up to 80 hours of funding from the OU 13 Work Package to revise and finalize the Laboratory HPGe Procedures. Work continues on the integration of the Industrial Area OUs.

OU 14 - Radioactive Sites

The activities for FY94 were entered into a software scheduling program, along with the logic ties, to facilitate the integration of activities with the other IA OUs (8, 9, 10, 12 and 13).

A follow-up strategic review meeting of remedial investigation tasks was conducted on July 13, 1993. Representatives from EG&G, an EG&G subcontractor, RFO and EPA were in attendance. The OU 14 issues discussed included the most probable remedial actions for the OU 14 IHSS's and which IHSS's would be suited for early (1994/95 time frame) remedial investigation (RI) and remedial action (RA) versus the IHSS's which would be better suited for RI/RA work in conjunction with the decommissioning activities being planned for the industrial area of the Rocky Flats Plant.

OU 15 - Inside Building Closures

Implementation of Stage I and II of Phase I RFI/RI fieldwork for OU 15 has been delayed approximately one month. Delays to OU 15 work have been incurred due to the approval process for completion of the Standard Operating Procedure (SOP) for Collection of Floor/Equipment Rinse Samples. Additional time was required to comply with new EG&G Administrative Procedures (i.e., Safety Evaluation Screening and Operational Review Committee review) prior to approval of the SOP, Quality Assurance (QA) requirements (i.e., Document Control requirements, QA Readiness Review requirements, etc.), and EG&G internal review of the SOP which exceeded the time allocated. In addition, it was not anticipated that approval of the SOP would be required prior to inclusion of the SOP within the Integrated Work Control Packages (IWCP) for OU 15 fieldwork. Although the Integrated Work Control Programs (IWCPs) have been through an initial review, the final review and approval process was not initiated until the approved SOP was included within the IWCP. The IWCP final review and approval process was initiated this week. The critical path for continuing with the performance of OU 15 fieldwork includes completion of IWCPs for individual buildings (i.e., 881, 865, 883 & 447).

The June 18, 1993, Internal Work Package Milestone for beginning OU 15 fieldwork has not been met. IHSS inspections have been conducted by ERM-Rocky Mountain, however, not all criteria for Milestone completion have been met. The beginning of OU 15 fieldwork Milestone will not be considered complete until all permitting requirements (i.e., IWCP approval) and Quality Assurance requirements (i.e., QA Readiness Review) are met.

Subcontract modification for coordination of Transition work and EG&G Radiological Protection Technicians (RPTs) should be completed this week. A revised Purchase Requisition, Cost Estimate and Sole Source Justification were completed and submitted to EG&G Procurement last week to ensure that the subcontract modification process could be completed this week.

OU 15 Technical Memorandums are not scheduled for submittal until FY 94.

Additional internal resources have been assigned to OU 15 in order to attempt to limit future delays to OU 15 work. EG&G Construction Management has also been requested to provide assistance with coordination of OU 15 activities.

OU 16 - Low Priority Sites

The Administrative Record continued to be updated with documents provided by various plantsite departments in preparation for the OU 16 Proposed Plan/Draft RCRA Permit Modification being released to the public sector for comments.

The proposed release date of July 6, 1993 will be rescheduled to allow further review time for RFO, HQ, and EG&G. The EPA project manager continues to incorporate comments being provided from within that agency.

Integrated Operable Units - OUs 8, 9, 10, 12, 13 and 14

Based on the second subcontract negotiations meeting for the IA OU contract on July 9, 1993, a revised cost evaluation is being performed by EG&G Procurement. The letter subcontract initiated on May 13, 1993, was expanded to allow the subcontract to begin work on all tasks for the IA OUs. Official contract award will follow completion of the cost evaluation. Data compilation tasks for OU 8 and OU 9 were initiated on July 14, 1993, under the new letter subcontract authorized on July 13, 1993.

EG&G is working to integrate OU schedules for the IA OUs for FY94. Each IA OU schedule for FY94 will be linked together via the work package system.

Interim Action/Interim Remedial Action Plan (IA/IRAP)

The second strategic planning session has convened. This session has representation from RFO and HQ as well as the local regulators. It is hoped that by the end of the week the group will be able to provide enough input to produce a document of its findings and recommendations.

The new scope and schedule for the IA/IRAP was presented to RFO and is currently under review. This schedule is also being peer reviewed and will be presented to the agencies on July 19, 1993.

Sitewide Activities

Administrative Record

Totals for the month of June, 1993

Total documents reviewed and processed for inclusion to the AR file	411
Total documents in AR to date	3,236

A transmittal system has been developed for the Records Center to transmit documents to the AR for review for inclusion into the AR. This transmittal form will also be utilized by Quantalex in assigning AR numbers. Once assigned, the transmittal will be rerouted to the Records Center so that AR numbers can be input into the records database, allowing for cross referencing of Records Center bar code numbers with AR numbers.

Treatability Studies

A meeting was held on Thursday, July 15, 1993, with EPA, CDH, DOE and EG&G attending. The purpose of the meeting was to discuss to review and discuss streamlining the content of current work plans and how future work plans and reports might be improved.

Baseline Change Proposals

Two baseline change proposals were scheduled to be presented to the Change Control Board on July 16, 1993. One change was to "capture" the cost improvement savings generated by substituting the Plasma Melter Project for the Magnetic Separation Project. The second change was to provide funding for the staff augmentation required to support the Risk Analysis Group.

Site Wide Work Package (12192)

This is the work package that supports the Site Wide Treatability Studies. This work package is supporting the following treatability studies and other activities for FY93: Physical Separation (TRU/Clean), Chemical Separation (NRT), Potassium Ferrate Precipitation (TRU/Clear), Adsorption, Colloid filter polishing method (Techtran - SITE Demo), Plasma Melter (Lockheed AWC), Solar Detoxification (SAIC and NREL), Annual report preparation, work package management, pondcrete evaluation report, bioremediation literature search and technical proposal preparation, colloid studies, flow pump testing, seep study, and the acquisition of an Inductively Coupled Plasma - Mass Spectrometer (ICP-MS).

The first draft of the FY94 work package was completed and submitted to the review process on June 18th. The package has completed reviews at the group level, preliminary RFO level, AGM level and plant level without major comment.

Colloid Polishing Filter Method (Techtran)

This process uses a proprietary chemical complexing agent to remove heavy metals and/or radionuclides contaminants from waste water or ground water. The contaminants are removed from the water by precipitation and filtration. Ultimately, the contaminants are contained in a dried filter cake and the treated water is returned to the environment. Results of preliminary tests carried out at RFP in 1991 were favorable. EPA's Risk Reduction Engineering Laboratory (Cincinnati) is interested in supporting a demonstration of this technology at Rocky Flats through their Superfund Innovative Technology Evaluation (SITE) program.

The existence of a NEPA categorical exclusion (CX) was investigated for the project under the sitewide treatability exclusion, RFO/CX031-92. However, this CX was specifically written for laboratory studies and will not apply to this project. As a result, actions were started to provide a separate CX for this project. An environmental checklist and Section D determination were created and submitted to the Plant NEPA Compliance Committee (NCC). The committee voted to recommend a CX for this project and forwarded their recommendation to RFO in July 6, 1993.

The Auditable Safety Analysis which was required for this project was completed on schedule. In addition, a Safety Evaluation Screen (SES) was generated by the Nuclear Safety group for the Integrated Work Control Program (IWCP) work package.

Samples from each of the temporary modular storage tanks were requested on July 13, 1993, to insure that the tank contents would be appropriate for the proposed test work.

Personnel training requirements for the project were identified and forwarded to EPA's contractor, PRC Environmental Management. EG&G has agreed to assist PRC in scheduling the necessary computer based training courses at RFP.

A letter was sent from RFO on June 24, 1993, to the Colorado Department of Health and EPA Region VIII requesting written approval for the EPA SITE Demonstration

Status of Treatability Lab in Building 881

RFP is developing a treatability study laboratory. The laboratory will be used to conduct some of the treatability studies for the Site Wide Program. This laboratory is ready for experimental work. The first work scheduled to be carried out is the TRU/Clear (potassium ferrate precipitation) treatability study.

The treatability study lab in Building 881 has been designated as a Radiologically Controlled Area (RCA). This means that anyone entering the lab to perform test work or observe must wear a dosimeter and be carrying a respirator. Personnel will be required to update their respirator training and dosimeters if necessary before being allowed into the laboratory.

Laboratory testing has been conducted in Building 881. The adsorption treatability study test work was started on July 12, 1993.

Pu in Soils - Physical Separation (TRU/Clean)

The TRU/Clean process (physical separation) was identified in the Final Site Wide Treatability Plan for further test work and evaluation to determine how effectively it might remove plutonium contamination from Rocky Flats' soils. Initially, this test work was planned to be a part of the Plutonium in Soils Integrated Demonstration. However, the ID has been put on hold. Therefore, RFP has contracted with Lockheed Environmental Systems and Technologies Co. to conduct testing of the TRU/Clean process with Rocky Flats Soils.

RFP personnel traveled to the Nevada Test site July 7 - 9, 1993, to discuss the preliminary test results from the Phase I testing (characterization) which has been completed. The test work is running about 2 weeks behind schedule due to reorganization of the laboratory to support the Plasma Melter test work. Phase II testing is scheduled to begin during the week of July 19, 1993.

EPA, CDH and DOE have been invited to visit the testing facility during the next round of testing to observe the test work. However, EPA and CDH have stated that they do not have travel funding available and have declined to visit at this time.

Sitewide Treatability Studies On Ion Exchange And Adsorption

Ion Exchange and Adsorption are two of the technologies identified in the Final Site Wide Treatability Plan for further test work and evaluation to determine how effectively they might remove various contaminants from surface and ground water at Rocky Flats.

Adsorption capability testing began on Monday, July 12, 1993. Six different materials are being tested to determine their adsorption characteristics for radionuclides and heavy metals from Rocky Flats waters. Water samples were obtained from three different wells on plant site and combined to form the sample for the test work. The test work is anticipated to take 1 to 2 weeks to complete and the analyses of the test products an additional 3 to 6 weeks.

Testing has been complicated by the fact that the laboratory has been designated as a Radiologically Controlled Area (RCA). This means that anyone entering the lab to perform test work or observe must wear a dosimeter and be carrying a respirator. Personnel will be required to update their respirator training and dosimeters if necessary before being allowed into the laboratory.

Health and Safety Support Meeting

A Health and Safety Support meeting was held concerning the Surface Soil Sampling Project (Americium Zone and Monitoring Trenches) Representatives from Industrial Hygiene, Occupational Safety, Construction Management, Radiological Engineering, Facility Operations Management, and Earth Sciences and Engineering attended. The primary focus of the meeting was to discuss health and safety concerns related to summer activities to be initiated. An Action Plan was developed (July 1, 1993) to cover the items of concern. The primary items discussed were:

- 1) Defining the scope of work and developing an addendum to the OU-2 Site Specific Health and Safety Plan to cover the tasks performed. An addendum for FY 93 will be developed by the Subcontractor to cover the tasks performed.
- 2) Site controls and posting requirements. RE and IH visited the work site and provided guidance as to work site controls. The signs will be posted as: "RCA, RWP Required for Entry, Enter at Step Off Pad Only"
- 3) Personal protective equipment (PPE) requirements related to ongoing field tasks needs to be evaluated by H&S Support. A response to any changes will be provided by RE.
- 4) Heat Stress monitoring requirements must be strictly adhered to since this may present an immediate danger to field crews. The program will be evaluated by W-C and IH to insure successful and feasible implementation.
- 5) A portable toilet facility will be provided at the work site.

Radiological Operations, RE, and FOM met to discuss concerns related to RPT support and interface between the organizations attending. A RO Support Request Form was generated in response to documenting the need for unrestricted surveys.

A meeting was held with Performance Based Training concerning the efforts to develop an Environmental Restoration Radiation Worker Training Class in compliance with the Radiological Control Manual (RCM). PBT is supportive of the effort in light of the unique activities of ER and the requirements of the RCM. ER will continue to work closely with RE and PBT to ensure a consistent implementation of the RCM training requirements.

Site Specific Health and Safety Plan

The Site Specific Health and Safety Plan for the Colloidal Treatment Demonstration Project. Comments submitted by the H&S Support Groups were discussed and resolution obtained. Upon incorporation of the resolutions, the Plan will be resubmitted for approval.

Other Activities

OU2 Milestone Writeup Delivered to EM-5

On July 14, 1993, S. Frank of EM-5 requested a writeup regarding the OU2 missed IAG milestone for submittal of the Draft Phase II RFI/ RI Report. The writeup is to be incorporated with data on missed milestones from other sites in response to a request from the GAO. The writeup was faxed to EM-5 on July 15, 1993.

ER Overview

An overview of the Rocky Flats ER Program was completed and published this week. Copies were distributed to various organizations for their use.

Implementation of HSP 12.08

RFO has initiated an audit concerning the implementation of HSP 12.08. The primary focus of the work is to identify the effectiveness of Construction Management, the Soil Disturbance Committee, and Occupational Safety. A copy of the Draft Revision DOE Order 5480.9 has been provided to Environmental Restoration Management. Environmental Restoration and Remediation activities are included in the definition of construction. A thorough review of the Draft Order will be conducted and comments submitted to Occupational Safety.

Survey on Non-PA Buildings

Facilities Operations conducted a survey of potential non-PA buildings which are currently under-utilized and could be transferred to Environmental Restoration for use as storage facilities for environmental waste. Recommendations will be transmitted to DOE by July 9, 1993.

Headquarters Program Manager Needed

Occurrence Reporting (OR) received a call from Anna Low of the Office of Energy Research, HQ, to advise that (EM) Environmental Restoration does not have a HQ Program Manager (PM) on ORPS for signoff on Final Occurrence Reports. According to Ms. Low, the EM Final Reports could "hang out there forever" without the signoff of an appointed PM. Currently EM has 22 reports awaiting Program Manager signature. OR informed Millie Birrenbach, RFO who will call HQ for advise as to what to do until a Program Manager is appointed. Ms. Birrenbach said EM-60 does not have the funds to appoint a PM.

Investigative Derived Materials Management- 3,396 Environmental Gray Drums in the Field

RCRA Unit 18.03 has 42 OU1, 124 OU2, 4 well abandonment and replacement program (WARP), 214 OU5-OU6, 92 OU7, 167 Decon Pad, 176 OU2 bedrock (BR) and 2 EB underground storage tank (UST) drums for a total of 821 drums stored in it with 30 of the 166 that were real time radiographed (RTRd) have detectable water. One hundred sixteen drums from RCRA Unit 18.03 with no exceedances were shipped to the contractors yard and the soil is being readied to be disposed of in the landfill. Two hundred sixteen drums with potential exceedances from the OU1, OU2, and Site-Wide drilling programs have been marked and are being monitored by EG&G Radiation Protection Techs and are being painted by EG&G painters in preparation to be shipped to RCRA Unit 18.03.

Eighty-eight drums from OU2BR were shipped to Real Time Radiography and then to RCRA Unit 18.03. Two hundred nine drums from OU2-BR, 32 drums JE WARP and 34 drums from OU5 are presently being stored at RCRA Unit 1940 and are being readied to be shipped to RCRA Unit 18.03. At the present time there are 1,744, 55 gallon drums and 1652, 30 gallon drums for a total of 3,396 environmental gray drums. Weekly RCRA inspections were completed. Monthly and weekly drum inspections have been started for the month of July.

A battery inventory for all personnel in the contractors yard is continuing, so that a battery recycling or disposal program can be started.

Mr. Vance Syphers from Environmental Scientific, Inc. presented a demonstration of a new absorbent material called RADSORB to EG&G and subcontractor personnel on July 7, 1993 in the Facility Operations Yard.

Two subcontractor personnel from the OU15 project successfully completed OJT for Non-PA waste generator on July 2, 1993.

Section II - Solar Ponds Remediation Project (SPRP)

Regulatory

A key issue for near-term removal and storage of pond sludge is the acceptability of storage of the sludge on the existing 750 Pad without the need for permit modifications. The last Part B permit modification request for Pad 750 was made in October 1992 and Colorado Department of Health (CDH) approval is still pending. This past experience indicates that permit modifications require long lead-times and would impact schedules for sludge removal. The 750 Pad is currently under Interim Status and it may be possible to clarify the Interim Status designation to explicitly include sludge as well as the cemented waste form. While CDH can no longer make changes to Interim Status, such a clarification may be possible. Once the specifics are further defined, EG&G will present the issue to RFO for transmittal to CDH.

Pondsludge Status and Issues

Both of the Accelerated Pond Sludge Removal Technical Teams began their deliberations at the Jeffco Airport Conference Facility on Tuesday July 6, 1993. By Thursday, the groups had advanced sufficiently to invite the Colorado Department of Health (CDH) to visit and review their progress. Three container options were selected for detailed evaluation. They are roll-off containers with internal or external secondary containments and frac tanks with external secondary containment. All participants, regulators and management appeared satisfied that the effort was proceeding as planned.

Both Halliburton-NUS (HNUS) and Kaiser Engineers delivered their respective cost estimates for demobilizing the first generation of 'C' Process Train equipment. The estimates differed significantly based on different estimating approaches and a different set of assumptions. Within the next three weeks a Statement of Work will be created directing HNUS to remove specific items from plantsite. In the interim, Construction Management will be reviewing the estimates and demobilization plans to effect the Subcontract Modification and the beginning of the work.

Pad Operations/Storage Status and Issues

The Fixed Fee construction contract with Marquez for Pad Sealing has been terminated due to delays associated with training subcontractor personnel. J. A. Jones will be authorized to perform all remaining work. The duration of work, after the contract has been awarded, is estimated to be 28 days. A Purchase Requisition and expedited start letter has been hand carried to EG&G's Purchasing Department on July 7, 1993. J. A. Jones will furnish RFP with a project schedule.

Water Management Status and Issues

The Building 910 evaporation facility was operated in June to run qualification tests necessary to qualify the facility for production operation. Analytical results are arriving. Most of the analyses for distillate from Evaporation Unit 2 are available, and so far that unit meets all qualification acceptance criteria easily.

The Building 374 evaporators were taken down for maintenance starting July 3, 1993, and are expected to be back on line about July 16, 1993. However, some problems occurred during reassembly which places this goal in jeopardy.

Construction is complete on the Building 910 evaporators. We will run the units daily next week to generate enough distillate to SO test the 215 D tank and the associated pumping control system.

The 207 B center pond is empty and has been turned over to rad protection to be smeared out.

There is still a little too much water in North pond to accurately judge the volume of sludge present. However, sludge pumping from North to South pond was started on July 8, 1993. Additional water will be pumped to Building 374 when they are able to receive.

	This Week	Total(since 4/1)
Pond Water to Bldg 374	(gal)0	1,405,000
Modular Tank water to Bldg 374 (gal)	0	331,000
Pond water excess volume (gal, Approx.)	0	NA
Total Pond Freeboard (inches)	211	(desired 210)
Available Modular Tank Volume (gal)	554,500	(926,500 ax)

Section III - Surface Water Management

Pond Water Management IM/IRA

A meeting was held with RFO, EG&G/Surface Water, Wright Water Engineers, and EG&G/ERM on July 6, 1993. The topic of discussion was the revised IM/IRA schedule. EG&G was unable to meet RFO requests to shorten the schedule without impacting document quality. RFO may request an update on the schedule by EG&G AGM level management. Meeting minutes and the final schedule were transmitted to RFO July 9, 1993.

Bi-weekly working meetings will be held with Wright Water Engineers and EG&G to review progress and resolve issues. This meeting will be held on alternate Wednesdays. Bi-weekly up date meetings will be held with RFO and EG&G. The update meetings will be held on alternate Thursdays following the working meetings. These meetings are designed to insure that the IM/IRA is on schedule and RFO is apprised of current status, issues, and events.

The EG&G Ecology and National Environmental Policy Act Division (END) is pursuing a Finding of No Significant Impact (FONSI) for the IM/IRA.

Section 2.4, Water Quality Data Summary, has been reassigned to the EG&G Statistical Applications Group and Surface Water Division personnel to replace personnel lost by voluntary termination. This could cause a one week delay in completing this section. The EG&G Risk Analysis group has intensified their efforts to recover this delay. There should be no overall impact on scheduled delivery of the IM/IRA.

Section IV - Future

Community Relations

Upcoming Events

July 27, 1993 Environmental Surveillance Exchange of Information Meeting, 1:30 p.m., Broomfield City Council Chamber, No 6 Garden Office Center, Broomfield

IAG MILESTONES THROUGH FISCAL YEAR 1994

<u>OU#</u>	<u>Milestone Description</u>	<u>Date Due to EPA/CDH</u>	<u>Status</u>
2	Submit Draft Phase II RFI/RI Report	12 Mar 93	Delinquent
2	Submit Draft Treatability Test Report	18 May 93	extended to 13 Jul 93/Complete
4	Submit Draft Phase I RFI/RI Report	21 May 93	extended to 14 Sep 93
2	Submit Site 2 Draft Test Plan	24 Jun 93	complete
2	Submit Final Treatability Test Report	13 Jul 93	extended to 8 Sep 93
3	Submit Draft Phase I RFI/RI Report	16 Jul 93	extension request submitted
6	Submit Draft Phase I RFI/RI Report	4 Aug 93	*
2	Submit Final Phase II RFI/RI Report	9 Aug 93	*
7	Submit Draft Phase I RFI/RI Report	12 Oct 93	*
4	Submit Final Phase I RFI/RI Report	18 Oct 93	extended to 14 Feb 94

2	Submit Draft CMS/FS Report	4 Nov 93	*
1	Submit Final Phase III RFI/RI Report	4 Jan 93	extended to 15 Nov 93
5	Submit Draft Phase I RFI/RI Report	30 Nov 93	*
3	Submit Final Phase I RFI/RI Report	13 Dec 93	extension request submitted
1	Submit Draft Proposed Plan	27 Sep 93	Extension request being prepared
1	Submit Final Proposed Plan	4 Jan 94	*
6	Submit Final Phase I RFI/RI Report	7 Jan 94	*
1	Submit Draft CMS/FS Report	31 Mar 93	extended to 11 Feb 94
8	Submit Draft Phase I RFI/RI Report	14 Feb 94	*
7	Submit Final Phase I RFI/RI Report	16 Mar 94	*
9	Submit Draft Phase I RFI/RI Report	11 Apr 94	*
4	Submit Draft Phase I Proposed IM/IRA Decision Document	14 Apr 94	•
12	Submit Draft Phase I RFI/RI Report	20 Apr 94	*
4	Submit Draft Phase II Work Plan	22 Apr 94	*
5	Submit Final Phase I RFI/RI Report	3 May 94	*
1	Submit Draft Responsiveness Summary	6 May 94	*
2	Submit Final CMS/FS Report	10 May 94	*
2	Submit Draft Proposed Plan	10 May 94	*
8	Submit Final Phase I RFI/RI Report	12 Jul 94	*
15	Submit Draft Phase I RFI/RI Report	1 Aug 94	on schedule
1	Submit Final CMS/FS Report	3 Aug 94	*
1	Submit Final Responsiveness Summary	3 Aug 94	*
1	Submit Draft CAD/ROD	3 Aug 94	*
13	Submit Draft Phase I RFI/RI Report	8 Aug 94	•
2	Submit Final Proposed Plan	9 Aug 94	*
10	Submit Draft Phase I RFI/RI Report	25 Aug 94	*
9	Submit Final Phase I RFI/RI Report	6 Sep 94	*
4	Submit Draft Phase I Proposed IM/IRA Decision Document	14 Apr 94	*
7	Submit Draft Phase II RFI/RI Work Plan	13 Sep 94	*
12	Submit Final Phase I RFI/RI Report	15 Sep 94	*
4	Submit Final Phase II RFI/RI Work Plan	19 Sep 94	*
11	Submit Draft Phase I RFI/RI Report	20 Sep 94	*

*Behind original IAG schedule, extension required