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Final Report

PITTSBURGH ENERGY TECHNOLOGY CENTER NEPA FEASIBILITY STUDY

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DEPARTMENT OF ENERGY PITTSBURGH ENERGY TECHNOLOGY CENTER NEPA FEASIBILITY STUDY

BACKGROUND

DOE has a long-standing policy to follow both the letter and the spirit of the National Environmental Policy Act (NEPA) of 1969 and to comply fully with the Council on Environmental Quality's (CEQ) implementing regulations. Specifically, DOE policy is to comply with Section 102(2) of NEPA and CEQ regulations as contained in 40 CFR Parts 1500-1508.

DOE revised its NEPA compliance procedures in 1992, 10 CFR Part 1021, in order to update and incorporate various agency policy initiatives, including facilitation of public and state participation in the NEPA process. Such participation reflects the DOE objective of operating its sites as "good neighbors" to the affected communities. Many DOE sites contain facilities that support diverse and unrelated missions and activities but are operated under single management. These sites have both individual and cumulative potential environmental impacts associated with ongoing and anticipated activities at the site.

Under the new implementing procedures, DOE may prepare a programmatic environmental impact statement (EIS) or environmental assessment (EA) at any time to further the purposes of NEPA (Section 1021.330). Additionally, as a matter of policy, and when not otherwise required, DOE shall prepare site-wide EISs for certain large, multiple-facility DOE sites. The agency may prepare EISs or EAs for other sites to assess the impacts of all or selected functions at those sites. Site-wide NEPA documents prepared under Section 1021.330 must be evaluated at least every five years.

As described in Section 1021.104 of the implementing procedures, a site-wide NEPA document means a broad-scope EIS or EA that is programmatic in nature and identifies and assesses the individual and cumulative impacts of ongoing operations and reasonably foreseeable future actions at a specific DOE site. Associated NEPA supporting documents (NOI, ROD, FONSI, and so on) are also included.

DOE intends that site-wide NEPA reviews will improve and coordinate agency plans, functions, programs, and resource utilization. A site-wide EIS, for example, will provide an overall environmental and NEPA baseline for a site that can support tiering or incorporation by reference when project-specific NEPA studies/documents are required for new actions.

The Pittsburgh Energy Technology Center (PETC) represents a DOE site under single management with its unique set of missions and multiple facilities. No site-wide NEPA study has yet been undertaken at PETC.

PURPOSE

The purpose of this study is to determine the feasibility of preparing a DOE policy-directed, site-wide NEPA study and document for PETC. The problem confronting DOE in preparing such a document stems from the disjunct facilities of PETC and their collocation with the Department of the Interior's Bureau of Mines (BOM) facilities and operations known as the Pittsburgh Research Center. Additionally, the Department of Labor's Mine Safety and Health Administration (MSHA) operates as a tenant on the BOM site. Together, the federal facilities constitute the 239-acre complex known as the Bruceton Research Center (BRC), which is located in Allegheny County about 13 miles south of Pittsburgh.

Of the 239 acres, BOM controls 180 acres, 3 acres of which are occupied by MSHA, and PETC controls the remaining 59 acres. The PETC site and facilities, however, are essentially bimodal with the older research and development area occupying about 14 acres in the northern part of the BRC and the newer program and contractor areas occupying much of the remaining 45 acres in the southern part of the BRC. BOM facilities occupy the area between the two DOE development areas.

The disjunct pattern of federal facilities at BRC has resulted from various shifts over time in responsibilities among federal agencies for programs that at one time or another were all resident at the BOM facilities at BRC. Among these were the creation of the Energy Research and Development Administration in 1975, the DOE in 1977, and the MSHA within the Department of Labor in 1978.

As DOE and BOM missions and responsibilities have developed through these reorganizations, their responses to NEPA implementation and CEQ guidance have differed significantly. Because of its responsibilities for nuclear energy and associated extremely hazardous/radioactive facilities and wastes, DOE has arguably the most comprehensive NEPA policies and procedures, including site-wide NEPA policies, of any federal agency. Conversely, the Department of Interior/Bureau of Mines has relatively straightforward NEPA policies and procedures with no comprehensive topical considerations and no policy/requirement for site-wide NEPA studies.

Given these circumstances, this analysis first addresses the feasibility of preparing a site-wide NEPA document within the context of DOE and CEQ guidelines. Second, if feasible, this analysis addresses whether the NEPA study can be a stand-alone DOE document, or whether some joint agency interaction or sponsorship would be required. Last, this analysis seeks to identify major problems or constraints to implementing the NEPA study and makes recommendations on such implementation.

METHODOLOGY

A number of tasks and techniques were employed to execute this study. Three principal tasks were performed: 1) data identification and review, 2) assessment of institutional/operational constraints to NEPA implementation, and 3) summary analysis and formulation of conclusions and recommendations.

The first task was accomplished through site visits at BRC, library and literature reviews, and telephone or meeting interviews with BRC personnel as well as governmental representatives at state and local agencies. This task was designed to document the existence and status of information or data that is potentially relevant to NEPA implementation, but not to generate or collect such data.

The site visits and information/data research were also instrumental in assessing the possible constraints to NEPA implementation, the second major task. This assessment focused on data relevance, coverage, and applicability to agency operations and responsibilities. This assessment was a crucial step in determining NEPA implementation feasibility in a site-wide context.

The final principal task consisted mainly of summarizing the Task 1 and 2 results and comparing them against DOE and other procedural and regulatory guidance regarding NEPA implementation, specifically programmatic/site-wide NEPA implementation.

RESULTS

Substantial data applicable to the varied components of NEPA implementation exists. The data typically covers specific PETC facilities/operations, specific BOM facilities/operations, some combined or joint facilities/operations, or the BRC in general. Similarly, significant data applicable to surrounding community features also exists.

The multiplicity of data coverages reflects the independent agency roles and responsibilities as well as their integration within the BRC—a single federal site. Thus, certain environmental media such as air, storm water, and groundwater are intermixed across the site and beyond, while other environmental features such as vegetation or cultural resources may be site and agency specific.

Other NEPA topical concerns have similar coverage attributes. For example, health and safety issues are specific to agency functions and facilities, yet joint issues such as waste streams and emergency response coordination exist. Each agency supplies its own security, snow removal, and waste disposal, yet the integration of facilities, for example, results in site-wide steam supply by BOM who, in turn, holds the air permit for steam generation. Joint, site-wide NPDES permits, however, are in place for storm water and wastewater.

Table 1 lists major NEPA categories according to DOE and CEQ guidance and summarizes information sources applicable to each that were confirmed during the study. It is evident from Table 1 that substantial information sources for developing NEPA data exist, at least regarding PETC facilities.

While much of the confirmed information applies also to BOM or to the Bruceton site in general, the study team was unable to confirm a similar range of information types and sources for BOM facilities and operations at BRC. Given that BOM, NEPA, and environmental compliance procedures in general are not as comprehensive or as rigorous as those for DOE, it is possible that significant information/data gaps may

exist for BOM facilities/operations. These would most likely occur in topical areas that are relatively unique to DOE such as health and safety and accident analysis.

Table 1 also indicates that certain information types do not exist in a site-specific context, including vegetation, wildlife, threatened and endangered species, traffic/transportation, cultural resources, and various socioeconomic factors. Some of these available information types are general in nature; site-specific extrapolations or field surveys would have to be undertaken.

Table 2 presents an analysis of the varied information/data coverages in terms of the BRC as a whole including its off-site context, PETC as a single entity, and the BOM as a single entity. The analysis also evaluates the probable adequacy of the data based on the confirmation of information sources presented in Table 1. Original field surveys or extrapolation and data refinement would be required for certain environmental factors regardless of coverage and for other factors depending on the coverage context.

On-site visits and meetings as well as telephone discussions were held with key PETC, BOM, and MSHA personnel and with other governmental agency personnel. These contacts are documented in the appendix to this report. Meeting summaries suggest that PETC would prefer to do the NEPA study for its facilities/operations alone. BOM does not require its facilities/operations to prepare or sponsor a site-wide NEPA document. Nor does it see any particular benefit in this activity. Costs and commitments of resources would be critical to BOM and MSHA in such an undertaking.

A joint study/document would require an inter-agency agreement (IAG). Agency cooperation short of an IAG would require some upper management agreements and commitments. Related cooperation currently exists and previous DOE efforts such as the 1991 Tiger Team audit did involve some BOM functions/personnel.

No useful NEPA documents covering BRC or PETC actions/operations were uncovered. Similarly, no example DOE operational or site-wide NEPA documents have been received from DOE, although some do reportedly exist.

In short, information and data sources generally exist in adequate coverages for PETC to meet DOE Argonne National Laboratory's NEPA Compliance System. This system organizes data into regulatory, media, sensitive receptor, and health and safety categories. Some deficiencies probably exist for coverages involving BRC/off site and BOM/site alternatives.

CONCLUSIONS

Analysis of the study results in comparison to DOE/PETC objectives and CEQ/DOE NEPA implementation policies allows a range of possible alternatives that are tied to varying data coverages and degrees of agency cooperation. In general, the study suggests that it is preferable for a site-wide NEPA study to consider the entire Bruceton Research Center. The BRC site-wide approach stems from the collocation of PETC/BOM facilities, the mixed environmental media associated with the site, the mixed regulatory arena of some site waste streams, and the single federal site consequences or

potential impacts that are perceived or possible off site. These would include, for example, mixed media, waste streams, traffic, land use effects, and economic effects.

It would be feasible for PETC to prepare stand-alone NEPA documents addressing each of the bimodal facilities according to the selected site functions rule of Section 1021.330. These documents could be prepared with minimal to no BOM cooperation. Sufficient linkages between the nodes exist, however, to question the usefulness and practicality of this approach.

A single PETC NEPA document covering both nodal areas could also be prepared, but its adequacy may come into question given the BRC interrelationships of environmental and other factors. This problem may be addressed, however, by involving PRC/BOM.

Table 3 presents an evaluation of NEPA alternatives with varying degrees of agency cooperation. The table supports the conclusion and recommendation that, if PETC can obtain BOM coordination or cooperation, it becomes feasible and worthwhile to pursue a BRC site-wide document, although a PETC site-only document may be possible. If such cooperation cannot be obtained, the range of meaningful NEPA documentation is restricted to each of the PETC functional nodes alone, although the usefulness of such documents would be questionable.

All available evidence further suggests that PETC pursue an EA-level NEPA document with the intention of discovering something that may or may not trigger EIS documentation.

Table 1 Confirmed Sources of Information for Typical NEPA Categories Pittsburgh Energy Technology Center Bruceton Research Center	
DOE/CEQ NEPA Category	Confirmed Preliminary Information Sources
PHYSICAL FACTORS	
Location/Slope	USGS Topographic Quadrangle Map—Glassport, PA. PETC Site Development Plan: Baker & Associates
Geology/Groundwater/ Hydrology	Geology and Mineral Resources of the Pittsburgh Quadrangle: PA Geological Survey Atlas A-27. Greater Pittsburgh Region Geologic Map and Cross Sections: PA Geological Survey Map #42. PETC Technical Site Information Report: Baker & Associates
Soils/Prime Farmland	USDA-SCS Soil Survey Report for Allegheny County PETC Site Sampling & Analysis Investigations—Soils, Surface Water, Sediment & Groundwater* Investigation of Environmental Effects—Demolition of R&D Gasholder Nos. 14, 15, 16 & 18: Baker & Associates* PETC Technical Site Information Report: Baker & Associates Subsurface Investigation—Above Ground Tank Farm*
Mineral/Energy Resources	Geology and Mineral Resources of the Pittsburgh Quadrangle: PA Geological Survey Atlas A-27.
Visual Resources	PETC Technical Site Information Report: Baker & Associates
CULTURAL RESOURCES	
Archeological	Guidance for developing cultural resources management plan is on file.* No cultural resources surveys have been performed on site, and categorical exclusions have been granted for most projects.
Historical	PETC Technical Site Information Report: Baker & Associates

Confirmed Sources of Information for Typical NEPA Categories	
Pittsburgh Energy Technology Center Bruceston Research Center	
DOE/CEQ NEPA Category	Confirmed Preliminary Information Sources
SURFACE WATER RESOURCES	
Water Quality/Surface Hydrology	PETC Site Sampling & Analysis Investigations—Soils, Surface Water, Sediment & Groundwater* Unpublished BOM groundwater study (in progress) at a small, abandoned landfill: Data in BOM files PETC Annual Groundwater Monitoring* Surface Water Analytical & Sampling Data* Monitoring Reports—Wastewater Discharges* Stormwater Discharge Reporting Requirements* Drinking Water Analytical Data*
Wetlands	PETC Technical Site Information Report: Baker & Associates National Wetland Inventory Maps
Floodplains	PETC Technical Site Information Report: Baker & Associates FEMA Floodway and Flood Insurance Rate Maps
AIR QUALITY	
Air Emissions	BOM Boiler Permits: No. 7031977-000-05400 PETC Boiler Permits: No. 7031977-000-00500 No. 7032056-000-00500 Site Source Emissions—Inventory Data* Results of PETC Asbestos and Radon Surveys*

Table 1 Confirmed Sources of Information for Typical NEPA Categories Pittsburgh Energy Technology Center Bruceton Research Center	
DOE/CEQ NEPA Category	Confirmed Preliminary Information Sources
HAZARDOUS MATERIALS AND WASTES	
Hazmat/Hazwaste	Hazardous Waste Material Management Plan* Waste Minimization Plan* Tiger Team Audit Report: 1991/1994* Potential Hazardous Waste Site Preliminary Assessment Form: 1992* Underground Storage Tank Management Plan/Field Investigation* PETC Site Sampling & Analysis Program reports* Investigation of the Abandoned Industrial Waste Sewer System in Area 900: Baker & Associates* Review of Storage Tank Procedures, Containment, Operations, and Maintenance: Burns and Roe, 1993* Inventory of PETC Stationary, Non-Lighting Fixture Oil-Filled Equipment: Burns and Roe, 1992 (updated in 1993 and 1994)* PETC Radon Survey* Pesticide/Insecticide Risk Assessment: Burns and Roe, 1993* SARA Title III Reporting* Request for Permanent Exemption for Low-Level Radioactive Waste Disposal*
BIOLOGICAL FACTORS	
Vegetation	
Landscaping	PETC Technical Site Information Report: Baker & Associates
Natural Vegetation	Pennsylvania Department of Environmental Resources, Bureau of Forestry (General Information—No site-specific studies have been documented)
Wildlife	
General Fauna	Pennsylvania Department of Environmental Resources, Bureau of Forestry Pennsylvania State Game Commission, SW Region (Above are sources of general information—existence of site-specific studies has not been documented)

Table 1 Confirmed Sources of Information for Typical NEPA Categories Pittsburgh Energy Technology Center Bruceton Research Center	
DOE/CEQ NEPA Category	Confirmed Preliminary Information Sources
Threatened and Endangered Species	Pennsylvania Department of Environmental Resources, Bureau of Forestry Pennsylvania State Game Commission, SW Region (Above are sources of general information—existence of site-specific studies has not been documented)
SOCIOECONOMIC FACTORS	
Employment/Economics	U.S. Census Bureau Pennsylvania State Agencies U.S. Bureau of Labor Statistics Southwest Pennsylvania Regional Planning Commission
Land Use/Zoning	PETC Technical Site Information Report: Baker & Associates South Park Township Zoning Board Jefferson Borough Zoning Board Allegheny County Comprehensive Plan (in preparation)
Community Services	South Park Township Jefferson Borough Allegheny County Comprehensive Plan (in preparation)
Site Facilities/Infrastructure	PETC Technical Site Information Report: Baker and Associates Tiger Team Audit Reports 1991/1994*
Demographics	PETC Technical Site Information Report: Baker & Associates U.S. Census Bureau Southwest Pennsylvania Regional Planning Commission Allegheny County Comprehensive Plan (in preparation)
Traffic/Transportation	Southwest Pennsylvania Regional Planning Commission PETC Technical Site Information Report: Baker & Associates Allegheny County Comprehensive Plan (in preparation)
UTILITIES	
Potable Water	PETC Technical Site Information Report: Baker & Associates Western Pennsylvania Water Company
Sanitary Sewer	PETC Technical Site Information Report: Baker & Associates Pleasant Hills Sewage Treatment Plant (North of Wallace Road) Clairton Sewage Treatment Plant (South of Wallace Road)
Storm Sewer	PETC Technical Site Information Report: Baker & Associates
Steam	PETC Technical Site Information Report: Baker & Associates

Table 1 Confirmed Sources of Information for Typical NEPA Categories Pittsburgh Energy Technology Center Bruceton Research Center	
DOE/CEQ NEPA Category	Confirmed Preliminary Information Sources
Natural Gas	PETC Technical Site Information Report: Baker & Associates Columbia Gas Company/Equitable Gas Company
Electric	PETC Technical Site Information Report: Baker & Associates West Penn Power Company
HEALTH AND SAFETY	
Safety/Health/Accident Analysis	PETC Emergency Preparedness Plan* PETC Employee Emergency Preparedness Handbook* Safety & Health Plan* Safety & Health 5-Year Plan* Asbestos Inventory, Identification, Operations/Maintenance, and Abatement Plans* Spill Prevention & Control Plan* Chemical Hygiene Plan* Emergency Notification and Reporting—Public Right-to-Know* Hazard Communication Plan/Toxic Chemicals* Tiger Team Audit Reports* Groundwater Protection Management Program: Baker & Associates (numerous other documents)
NEPA STUDIES	
Previous NEPA Studies/Evaluations (Relevant to Bruceton site in particular or DOE operational studies in particular)	Larry Miller, USBOM Office of Environmental Affairs Bureau of Mines NEPA Manual Environmental Assessment—Proposed Mine Materials Testing Complex, Bruceton, Pennsylvania: 1973. Synthane Coal Gasification Pilot Plant to Demonstrate Feasibility of Converting Coal to Substitute Natural Gas: DOI FES 72-78, 1978 Jim Johnson, USDOE Office of NEPA Oversight, Fossil Fuels Reportedly has examples of DOE Operational NEPA documents, DOE Categorical Exclusion Documents (numerous)
*Documents Present in PETC Records Room.	

Table 2 Data Coverage Analysis of Significant Environmental Factors Relevant to Pittsburgh Energy Technology Center Operations				
Factors	BRC/ Off-Site	PETC	BOM	Primary Source of Info/Docs*
PHYSICAL FACTORS				
Location	A**	A	A	USGS Maps, Site Development Plan
Geology/Hydrology	FS/DD***	FS/DD	FS/DD	DER Topography and Geology Survey, contact Mr. Rick Keen (717) 783-8077
Soils/Prime and Unique Farmland	A	A	A	USDA SCS (Allegheny County), contract Mr. Robin Moyer (412) 922-4448; PETC Technical Site Information, Baker and Assoc. 1992
Mineral and Energy Resources	A	A	A	DER, Bureau of Mining and Reclamation, contact Mr. Bill Plassio (412) 941-7100
Visual Resources (Viewshed)	FS/DD	FS/DD	FS/DD	Allegheny County Planner, Marylin Detwiler (412) 355-6806; South Park Township planning consultant (Gateway Engineers), Ruth Omer (412) 921-4030
CULTURAL RESOURCES				
Archeological	FS/DD	A	FS/DD	State Historic Preservation Office (SHPO), (717) 784-4363
Historical	FS/DD	FS/DD	FS/DD	SHPO

Table 2 Data Coverage Analysis of Significant Environmental Factors Relevant to Pittsburgh Energy Technology Center Operations				
Factors	BRC/ Off-Site	PETC	BOM	Primary Source of Info/Docs*
SURFACE WATER RESOURCES				
Water Quality	A to FS/DD	A to FS/DD	A to FS/DD	Allegheny County Conservation District (erosion/sediment pollution control and NPDES permits), contact Mr. Harry Barnett, (412) 921-1999
Wetlands	FS/DD	A	FS/DD	USGS ESIC National Wetlands Inventory maps, (800) 872-6277; USCOE, Pittsburgh District, contact Mr. Ray Beringer (412) 644-6874; PA DER, Bureau of Dams, Waterways & Wetlands, contact Ms. Fran Koch (717) 787-6827
Floodplains	A	A	A	FEMA/FIRM Maps (800) 358-9616, Technical Site Information, Baker & Assoc. 1992
AIR QUALITY				
Air Emissions	FS/DD	FS/DD	FS/DD	Allegheny County Health Department (Division of Air Quality), contact Dr. Arthur Fieser (412) 687-2243; USEPA Region 3 (New Source Review), contact Ms. Eileen Glen (215) 597-8379; BOM Boiler Plant

Table 2 Data Coverage Analysis of Significant Environmental Factors Relevant to Pittsburgh Energy Technology Center Operations				
Factors	BRC/ Off-Site	PETC	BOM	Primary Source of Info/Docs*
HAZARDOUS MATERIALS AND WASTES				
Hazmat/Hazwaste	FS/DD	A	FS/DD	DER, Southwest Regional Office (412) 442-4000; PETC Tiger Team Assessment Action Plan; PETC Emergency Preparedness Plan
BIOLOGICAL FACTORS				
Vegetation				
Landscaping	FS/DD	A	FS/DD	Technical Site Information, Baker & Assoc. 1992; Pesticide Use Survey 1992
Natural Vegetation incl. Threatened and Endangered Species	FS/DD	FS/DD	FS/DD	DER, Bureau of Forestry (PA Natural Diversity Inventory), contact Mr. Ed Dix (717) 787-2105
Wildlife				
General Fauna	FS/DD	FS/DD	FS/DD	PA Game Commission, SW Region, contact Mr. Harry Richards (412) 238-9523; USFWS Northeast Regional Office, contact Mr. Paul Nickerson (413) 253-8615; PA Fish and Boat Commission, contact Mr. Andy Shields (814) 359-5169
Threatened and Endangered Species	FS/DD	FS/DD	FS/DD	PA Game Commission, SW Region, USFWS, and PA Fish and Boat Commission

Table 2 Data Coverage Analysis of Significant Environmental Factors Relevant to Pittsburgh Energy Technology Center Operations				
Factors	BRC/ Off-Site	PETC	BOM	Primary Source of Info/Docs*
SOCIOECONOMIC FACTORS				
Employment Statistics/ Demographics	A	A to FS/DD	A to FS/DD	PETC personnel records; Southwest PA Regional Planning Commission, contact Peter Longeni (412) 391-5590
Land Use/Zoning	A	A	A	South Park Township Zoning Board, contact Ruth Omer (412) 921-4030; Jefferson Borough Manager, contact Richard Clark (412) 655-7735; Southwest PA Regional Planning Commission (412) 391-5590
Traffic/ Transportation	A to FS/DD	FS/DD	FS/DD	
Community Services	A	A	A	Allegheny County Planner, contact Marilyn Detwiler (412) 355-6806; Southpark Township (Gateway Engineers) (412) 921-4030; Jefferson Borough Manager, contact Richard Clark (412) 655-7735 Southwest PA Regional Planning Commission (412) 391-5590
Demographics	A	A to FS/DD	A to FS/DD	U.S. Bureau of Census, National Planning Data Corp., Southwest PA Regional Planning Commission, PA Commonwealth Agencies
UTILITIES				
Potable Water Supply	A	A	A	Western PA Water Company, (412) 344-4400

Table 2 Data Coverage Analysis of Significant Environmental Factors Relevant to Pittsburgh Energy Technology Center Operations				
Factors	BRC/ Off-Site	PETC	BOM	Primary Source of Info/Docs*
Sanitary Sewer	A	A	A	Pleasant Hills STP, (412) 653-3878; Jefferson Borough Manager, contact Richard Clark (412) 655-7735
Storm Sewer	A	A	A	Allegheny County Conservation District, contact Mr. Harry Barnett (412) 921-1999
Steam	A	A	A	BOM, Bldg. 62 (Steam Plant for Bruceton Research Center)
Natural Gas	A	A	A	Columbia Gas (412) 228-3200 Equitable Gas (412) 348-7788
Electrical Power	A	A	A	West Penn Power Co., (412) 489-9511
HEALTH AND SAFETY				
Inspections	FS/DD	A	FS/DD	Tiger Team Reports, OSHA inspection reports
Accident Analysis	FS/DD	A	FS/DD	
<p>* Many unlisted documents can be located in the PETC Records Room Files and excellent overview information is also available in the PETC Technical Site Information 1992-2012 document and the PETC Site Development Plan 1992-2012 developed by Baker & Associates.</p> <p>** Available.</p> <p>*** Field survey/data development needed.</p>				

Table 3 Comparison of Constraints for Various NEPA Study Approaches Bruceton Research Center Site-Wide NEPA				
DOE/CEQ NEPA Category	PETC/BOM Joint Document	PETC Site Document w/BOM	PETC Site Document w/BOM	PETC Site Document w/BOM
Alternative Operational NEPA Approach				
PHYSICAL FACTORS				
Location/Slope	1	1	1	1
Geology/Groundwater/ Hydrology	1	1	2	3
Soils/Prime Farmland	1	1	1	1
Mineral/Energy Resources	1	1	1	1
Visual Resources	1	1	1	1
CULTURAL RESOURCES				
Archaeological	1	1	2	3
Historical	1	1	2	3
SURFACE WATER RESOURCES				
Surface Water Quality/Hydrology	1	1	2	3
Wetlands	1	1	1	2
Floodplains	1	1	1	1
AIR QUALITY				
Air Quality	1	1	2	3
HAZARDOUS MATERIALS AND WASTES				
Hazmat/Hazwaste	1	1	2	3
BIOLOGICAL FACTORS				
Vegetation				
Landscaping	1	1	1	2
Natural Vegetation	1	1	1	2
Wildlife				
General Fauna	1	1	1	1

Table 3 Comparison of Constraints for Various NEPA Study Approaches Bruceton Research Center Site-Wide NEPA				
DOE/CEQ NEPA Category	Alternative Operational NEPA Approach			
	PETC/BOM Joint Document	PETC Site Document w/BOM Cooperation	PETC Site Document w/BOM Coordination	PETC Site Document w/ No BOM Involvement
Threatened and Endangered Species	1	1	2	3
SOCIOECONOMIC FACTORS				
Employment/Economic	1	1	2	3
Land Use/Zoning	1	1	1	1
Community Services	1	1	1	1
Site Facilities/ Infrastructure	1	1	2	3
Demographics	1	1	1	2
Traffic/Transportation	1	1	2	2
UTILITIES				
Potable Water	1	1	1	1
Sanitary Sewer	1	1	1	2
Storm Sewer	1	1	2	2
Steam	1	1	2	2
Natural Gas	1	1	1	2
Electric	1	1	1	2
HEALTH AND SAFETY				
Health & Safety	1	2	2	3
Accident Analysis	1	2	2	3
Legend: 1. Feasible with no significant problems. 2. Generally feasible with significant problems/constraints. 3. Not feasible to evaluate for NEPA.				

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*The sources noted above represent important information documents for which full reference citations were obtained. Due to the nature of this study, a large number of potential information sources were reviewed in a short period of time to confirm their existence and evaluate applicability to this project. This list is not complete in that complete citations were not obtained for all documents reviewed. A significant amount of potentially valuable information exists in the form of memos, in-house plans/reports, regulatory compliance files, and so on. Many such documents are filed in the PETC Records Room—a listing of the PETC Records Room file contents (as of 2/94) is attached to document additional information sources not listed above.

APPENDIX

MINUTES FOR PETC KICKOFF MEETING AND SITE SURVEY FEBRUARY 23-24, 1994

John Koerner (BHE Environmental) and Gary Hilgar (Woolpert) traveled to the Bruceton Research Center at Bruceton, PA, to establish on-site contacts and collect or review information relevant to the NEPA Feasibility Study for the Pittsburgh Energy Technology Center (PETC). Highlights of the trip included a meeting with environmental personnel from PETC, Department of Interior—Bureau of Mines (BOM), and Department of Labor—Mine Safety and Health Administration (MSHA); document/data review at the BOM library; and document/data review at the PETC records room. We also were able to conduct a windshield survey of the entire research center.

Kickoff Meeting

Persons attending the kickoff meeting at 10:00 a.m. on February 23, 1994 included:

Robert Cascio—MSHA Safety Officer
Barbara Heirendt—BOM Safety, Health, and Environmental
Gary Hilgar—Woolpert
John Koerner—BHE Environmental
Lloyd Lorenzi—PETC POC/NEPA Compliance
Bruce Webster—PETC Environmental

The following items were discussed and comments made:

- Lloyd Lorenzi chaired the meeting and made appropriate introductions. The Center has an Interagency Environmental Committee that meets periodically, addresses joint issues, and coordinates emergency responses. He began by stating that DOE's mission was to complete operational NEPA documents for all major DOE field facilities.
- The Woolpert team identified the key missions of the trip as: 1) to identify available data applicable to a NEPA study, and determine the extent, currency, and quality of such data; and 2) to determine if a credible NEPA document could be prepared for PETC alone, or if the other agencies would need to be involved on a sitewide basis due to the degree of co-location at the site. John Koerner discussed the range of NEPA options including the "stand-alone" alternative, joint agency alternative, a lead agency/participating agency alternative, and the option of cooperation only.
- Lloyd Lorenzi indicated that DOE's preference was to do the NEPA document for PETC alone, but that if BOM/MSHA cooperation was necessary, it would involve agreement by top management. However, he stated it was unlikely that BOM/MSHA would join DOE as a participating agency in preparing a NEPA document.
- Barbara Heirendt stated that the agencies have historically operated individually and obtained permits individually, with the exception of a sitewide NPDES permit. She also indicated that the amount of information requested and cost to BOM would be a critical issue to their participation. DOI has their own specific NEPA implementation guidelines, which are less demanding than DOE's, and this study would likely be of no particular benefit to BOM.

- Bruce Webster stated if that allocation of significant resources from BOM and MSHA were required, an upper management level decision would most likely be needed.
- The Woolpert team presently does not have clearance to inspect BOM/MSHA facilities and interview their employees until management approval is received.
- No applicable NEPA documents have been prepared at the Bruceton facility to date that anyone could recall.
- The PETC Records Center in Building 58 was identified as a source of extensive current and historic environmental reports. BOM publications are located in the BOM library in Building 140.
- Ms. Heirendt indicated that a short (3-4 pages) preliminary site assessment prepared by PADER, done in conjunction with a small former on-site landfill, is the only possible NEPA-related study she is aware of that could involve BOM.
- BOM is currently conducting a groundwater study at the former landfill which dates back to the early days of the Bruceton Center.
- BOM has air permits for a boilerhouse which produces steam for the entire site, and has RCRA small quantity generator status.
- PETC is classified as a large quantity generator under RCRA.
- BOM formerly conducted explosives testing at the site, but has moved such testing to the Lake Lynn Center—most current on-site work consists of bench scale laboratory studies.
- PETC has a 10-year Master Plan for future operations.
- BOM has no such plan, believes that their property is fully developed and is currently planning no future development; although Vice President Gore's proposal for consolidation to five centers of excellence could change this condition.
- PETC formerly operated a coal gasification plant in the 900 area which had air, water, solid and hazardous waste, and noise impacts—this plant has since been demolished. A liquefaction plant constructed in the 920 area was never operated.
- All agencies share a common emergency phone and response system, but each has separate first response and medical teams once the problem is identified. Each has separate police/fire contacts. Traffic control is shared if cross-site traffic is involved.
- Each agency handles its own snow and waste removal, except that BOM handles such matters for MSHA, since MSHA is a BOM tenant.
- Wastewater from the portion of the site north of Wallace Road is routed to Pleasant Hills WWTP, and sewage from the area south of Wallace Road is routed to Clairton WWTP.
- Major asbestos removal efforts have been completed. Minor jobs (short pipe segments, areas concealed by walls/ceilings) are handled as they are encountered.

BOM Library Review

- A review of documents at the BOM library yielded no significant information regarding the Bruceton facility—reports filed at the library generally described bench-scale laboratory experiments or field research studies.

PETC Records Room Review

- PETC Records Room is maintained and operated by Burns & Roe, site contractor.
- Thirty filing cabinets of facility information/data are maintained—a detailed drawer by drawer listing of cabinet contents was received from Records Room clerk.
- In general, documents from early-mid 1980's are filed here—older documents have been archived.
- Apparently some new environmental documents have been completed but not filed yet—newly prepared files with no documents within were found in certain cabinet drawers. A number of boxes of files/reports are in the room, but yet to be classified.
- A very thorough “Tiger Team” audit was performed in 1991— apparently some BOM personnel were interviewed during this process. 121 health and safety findings and 41 environmental findings were reported, none of which appear to be serious.
- Another “Tiger Team” audit is scheduled for March-April, 1994.
- “Potential Hazardous Waste Site Assessment Form” dated 9/18/92 addressing PETC only noted 6 drum storage areas, 2 contaminated soil areas, and one “char pond.”
- DOE guidance for developing a cultural resources management plan is on file, but no cultural resources surveys have been performed. However, no project, as documented by numerous categorized exclusions (CEs), has apparently had any potential to affect such resources.
- A compliance summary submitted 4/92 indicated PETC was named as a Potentially Responsible Party under CERCLA for wastes shipped to the bankrupt Envirotek II site in Tonawanda, NY.
- An inventory submitted in 1/94 lists the contents, owner, location, etc., of all gas cylinders at the facility.
- Various Phase I Sampling and Analysis Investigations documents dated 1989-93 give detailed information regarding: solid/hazardous accumulation areas; UST management plan; results of extensive sampling/testing of soils, surface water, stream sediments, and groundwater at the site.
- “Investigation of the Abandoned Industrial Waste Sewer System in Area 900” describes efforts to characterize an old sewer associated with the demolished Synthane (gasification) plant.

- Report on demolition of R&D Gasholder Nos. 14, 15, 16, and 18 submitted 1/94 describes efforts taken to remove/remediate lead contaminated soils near the old gas storage tanks.
- Detailed tank inventory submitted 5/27/93 by Burns & Roe documents location, age size and content information for active, inactive, and previously removed UST's and AST's. Currently there are 3 active UST's and 28 active AST's.
- Inventory of PETC Stationary, Non-lighting Fixture Oil-filled Equipment submitted in 10/16/92 documents PCB contents of transformers—three unknown, 21 are <50 ppm. Inventory updated in 1993 and 1994.
- Asbestos surveys completed for various buildings.
- PETC radon survey conducted 11/89-2/90 listed results for 42 tests with results ranging from 0.3-3.2 picocuries/liter.
- PETC submitted a request on 12/93 for exemption from DOE low-level radioactive waste (LLRW) disposal policies. Apparently other DOE facilities have been refusing to accept such wastes from PETC, and they wish to contract with a commercial disposal facility.
- "Pesticide/Insecticide Risk Assessment" was submitted 7/93 to evaluate risk of monthly applications by Pest Shield.
- SARA Title III Form R information documented spills and releases at PETC.

Miscellaneous

- The Woolpert team also met briefly with Eli George, EH&S, who loaned us some material related to the former Synthane plant.

Results

- The Record Room documents provide a solid foundation for addressing most of the potential issue areas required by a DOE NEPA document. Of those missing, e.g., traffic, economics, surrounding land use, some could be readily obtained elsewhere. Questions regarding joint site issues and data remain, as does the disposition of unaddressed topics such as cultural resources.

Environmental (5400)

Cabinet 1 Drawer 1

Environmental Activities

General Policy Statement

Annual Operating Permits (All)

Annual Environmental Survey

July 1988 PETC

July 1989 Oakridge Survey

Preliminary Assessment (5430)

Cabinet 1 Drawer 2

Cultural Resource Management

Database File (Enflex Info)

Environmental Monitoring Air/Plan Reports

1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993

Cabinet 1 Drawer 3

Clean-up (Reports & Cost)

Compliance Reports-1990, 1991, 1992 (5483)

Criminal Indictments (See Cabinet 30 Drawer 2)

Environmental Protection Reports (5483)

Environmental Protection Plan

Long Range Environmental Plan (5420)

Cabinet 1 Drawer 4

Notification of Violation & Warnings

OMB Circular A-106

CERCLA

CERCLIS

PA DER Consent Order/Agreement

RCRA Reports (See Cabinet 2 Drawer 3)

Risk Assessment (EPA Guidelines)

Studies General Environmental, Lick Run

Vulnerability Assessment (Cabinet 22 Drawer 2) (1311)

Wet Lands

Wilsonville, Alabama Trip 1992

Environmental

Cabinet 2 Drawer 1

Air Pollution Plan/Environmental Monitoring (5400)
Impact Model Analyses
Air Pollution Management Plan
Air Quality Sight Specific
Annual Air Emissions Report
Asbestos (See Cabinet 9 Drawer 1)
Clean Air Act (Ozone Information)
Regulations
Meteorological Monitoring System

Cabinet 2 Drawer 2

NESHAPS

Approval of Construction of New Sources
Generic Coal Conversion Facility
Notification of Demolition or Renovation
Notification of Start up or New Sources
Start-up of (3) RayPak Gas Fired Boilers
(Ref# 7032056-000-00500)

Applications for Permits

Operating Permits
1988 # 7032056-00205400 Permit
1989 Application Cleaver Brooks Boiler
1990 #7032351-000-00500 Cleaver Brooks Boiler (922)

Pollution Prevention Awareness Plan (PPAP)

Regulations Allegheny County

Site Source Emissions-Inventory Data

Controls Applied at Complex Stack Monitoring
Surveys & Studies

Bureau of Mines Boiler House Air Applications & Permits

(Also Reference Tiger Team Action Plan E-017)

Cabinet 2 Drawer 3

RCRA Resource Conservation & Recovery Act

Submittal Form 8700 - 13/A/B

Solid Waste Management (Past/Present)

Current Inventory

Cylinder Pad (Quarterly)

Chemical Handling Facility (Quarterly)

Facility Waste Handlers (Sterling Chemical)(Frontier Chemical)

Land Disposal Regulations

Solid Waste/Active & Inactive *map only*

Location Maps & Descriptions

Operational History

Building Rubble

Cabinet 2 Drawer 4

Hazardous Waste Material Management Plan

Disposal Plan For Coal Preparation Process Research Facility

Industrial Waste

Medical Waste Program

Non Hazardous Waste Program

Recycling

Recycling Hazardous Waste

Fluorescent Lamp Disposal

Recycling Annual Reports-1991, 1992, 1993

Residual Waste

Waste Minimization Plan

*Site specific sampling &
testing data*

Environmental

Cabinet 3 Drawer 1

Sampling & Analysis

PETC Comments, Slides, Photos, Letters
NUS Survey 1988 & 1989
FY 1989 Environmental Monitoring Requirements
PETC Sampling & Analysis Data Document
11/1990 Baker SAP & QAPP for Soils, Surface Water, & Stream Sediment
Sampling

Cabinet 3 Drawer 2

Site Sampling & Analysis Phase I

93 Weekly Reports
93 General Correspondence
92 Weekly Reports
92 General Correspondence
Phase I Disposal of Investigation Denied Wastes
Phase I Final Reports

Cabinet 3 Drawer 3

Phase I Final Report (Continued)

2/1991 Baker QAPP Sampling & Analysis
2/1991 Baker 90% Draft SAP & QAPP Sampling & Analysis
11/1991 Baker SAP Final Rev Draft
11/1991 Baker SAP Rev. 1 Draft w/ comments
1/1992 Baker Site Sampling & Analysis Investigation
SO#7518-BRM
3/1992 Baker QAPP Rev. 1
3/1992 Baker SAP Rev. 1
4/1992 Baker SAP Rev. 2
6/5/92 Site Sampling & Analysis Investigation SO# 17518-BRM

Cabinet 3 Drawer 4

11/90 Baker SAP, HASP, QAPP for Site Sampling & Analysis Investigation

Phase 1 Site Sampling & Analysis Investigation

Volume I July 1993 Delivery Order 046
Soils, Surface Water Sediment, & Groundwater

Volume II July 1993 Delivery Order 046
Underground Storage Tank Management Plan Field Investigation

Volume III July 1993 Delivery Order 046
Parts 1 & 2 Appendixes
Part 3 Data Validation & Usability Report

Environmental

Cabinet 4 Drawer 1

Annual Ground Water Monitoring
Drawings Ground Water-Well Locations
11/11/91 PADER Water Well Inventory Report
Well/Borehole Maintenance & Abandonment

Groundwater Protection Management Program (Baker & Assoc)

2/1990 Statement of Work EE90-012
5/1990 Groundwater protection Management Program/Plan Outline
6/1990 Preliminary Draft (PETC Comments)
8/1990 Baker 90% Draft

Cabinet 4 Drawer 2

10/1990 Baker Final Draft
4/1991 Baker Rev. 1
7/1991 PETC Implementation of EH&S Doc. 1.5
3/1992 Baker Rev. 2
4/1992 Baker Rev. 3

Cabinet 4 Drawer 3

Soil Erosion Control Manual
Soil Sampling & Analysis Program
Sitewide Photoionization Detector Survey 1992-1993
Soil Sampling & Analysis Reports
 Baker & Associates 1991 Revision (Update)
 Keystone
 P.E.T.C.
 OakRidge Sampling & Analysis Report July 1989
2.2 Acre Site at 922 Area
Bldg 59 Soils Investigation

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Subsurface Investigation
 Order # 001 Above Ground Tank Farm
 Order # EE90-014 Bldg. 90 Soils Excavation
 Order # EE91-011 Sampling & Analysis Investigation
Bldg. 903 Waste Oil Sumps
Gasholder Demolition
General Reports 1993 Characterization Petroleum Contaminants in Ground Water & Soils

Environmental

Cabinet 5 Drawer 1

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- Inventory Reports to E.P.A.
- List Identifying Locations
- Capacity
- Fabrication
- Product/Chemical Inventory
- Corrosion Control
- Location Maps

Memorandums to File

Cabinet 5 Drawer 2

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- Storage Tank Laboratory Waste Water Holding Tank
- Storage Tank Management Plan
- Storage Tank Permits
- Storage Tank Certification of Fire & Explosion Safety
- Storage Tank Procedures

Cabinet 5 Drawer 3

Above Ground Tank

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- Tank Closure/Removal
- Above Ground Tank Farm
- Gasoline Tank Bldg 901

Cabinet 5 Drawer 4

UnderGround Tanks

- Inventories and Surveys
 - 11/1989 Environmental Survey Assessment of Underground Storage Tanks
 - 8/1990 Underground Tank & Sump Review
- Notification to PA DER
- Sampling & Analysis
 - 8/1991 Underground Storage tank Site Wide Sampling & Analysis
- Tank Closure/Removal
- Underground Storage Tank Management Plan
 - 12/1989 Underground Storage Tank Management Plan Title I Design EE90-002
 - 8/1990 Baker Draft EE90-002
 - 11/1990 Baker 90% Draft
 - 1/1991 Baker 90% Draft PETC Comments
 - 1/1991 Baker Final Underground Storage Tank Management Plan
 - 3/1992 Baker Rev. 1

Environmental

Cabinet 6 Drawer 1

Water/Drinking Water

Analytical Data on Drinking Water

Back Flow Prevention Program

Back Flow Diagrams

Certified Personal

Control Manual

Control Program

Collections/Water

Water Distributions/Drawings

Cabinet 6 Drawer 2

Inspection Manual

Maintenance Records

Monitoring Personnel

Organic & Inorganic Quality Data

Potable Water

Reports

Certified Personnel/Operations

Regulation Reports

Federal Regulations

State Regulations

Local Regulations

Water Treatment Plant-Waste Water

Cabinet 6 Drawer 4

Surface Water

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Catch Basin

Drainage System Abatement

Drainage System Implementation Plan

Drainage System Maintenance Plan

Drainage System Up-Grade

Inspection & Investigations

NPDES General Permits

Reporting Requirements Stormwater Discharges - 1991

Sampling and Analysis Reporting BRSC - 1992

Preparedness, Prevention, and Contingency Plan "PPC"

Chemical Handling Facility Spill Response Plan 1992

Environmental

Cabinet 7 Drawer 1

Spill Protection, Control, and Contingency Plan "SPCC"
Storm Water Discharge Permits 91-004 (NPDES)
Surface Water-Water Management Plan
Sewer & Storm Drain Layout
Surface Water Quality & Data Reports

Cabinet 7 Drawer 2

Waste Water
Drawings/Waste Water Treatment/Piping & Instrumentation
Certified Personal/Operations
Implementation Plan/Tracking System
Waste Water Discharges
Monitoring Reports-Waste Water Discharges
Waste Water Treatment Plant "Industrial Waste Questionnaire"
N.P.D.E.S. Pretreatment Permit Application
Proposed standards for "Volatile Organic Emissions"
Laboratory Waste Water Discharges

Cabinet 7 Drawer 3

Operation of Waste Water Treatment-Maintenance Plan
Regulations/Water Authority
Pretreatment-Application & Permits
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Studies of Waste Water
Waste Water Management Program
Water Quality Data
Waste Water Sampling & Analysis Plan
Waste Water Treatment Plan
Waste Water Treatment Plant Sump Pumps

Cabinet 7 Drawer 4

Open

Safety (3791)

Cabinet 8 Drawer 1

Safety & Health Plan

Safety & Health 5 Year Plan

Audits

Safety & Health

Medical (See Cabinet 14 Drawer 2)

PETC OSHA Observation at Super Collider, Texas

(Conducted By A. Sivak, August 1993)

Cabinet 8 Drawer 2

Safety & Health Policy

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DCI

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PETC

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- Identification & Survey Plan 3.2.2
- Inventory of Buildings
- Operations & Maintenance Plan 3.2.1.

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- Construction (Also See Cabinet 19 Drawer 1)
- Contractor
- R & D Construction
- Requirements

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Cryogenics

Electrical

- Electrical Safety Program
- Function Assessment
- Electrical Tools & Equipment Function Plan
- Ground Fault Interrupters (GFI's)
- Outage Notices/Requests

Elevators

Employees Safety/Health Concerns

- Inspections/Abatements/Responsible Organization Responses

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- Extinguisher
- Hot Work Permit System
- Incidents
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- National Fire Protection Assoc. NFPA
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- Plans/Fire
- Cold Weather Protection Plan
- Protection Program/Plan
- Fire Water Testing (Standard Operating Procedures)

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FE-HQ Request For Information
Emergency Preparedness Manual
Emergency Operations Center "EOC"
Emergency Coordinator
Emergency Evacuation Plan
Incident Chain of Command
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Emergency Evacuation Multi-Purpose Drill 1991
Emergency Preparedness Task Force
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Emergency Equipment Inventory
Installation & Inspections
Emergency Vehicles
Maintenance & Operations
Hazard Assessment Surveys
Emergency Preparedness Cards
Emergency Response and Rescue
Rescue Critique (Data base generated reports)
ERT Application
Organization Charter
Fire Fighting Services
MOA DOE/PETC & Broughton Fire Department

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Emergency Notification and Reporting
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Emergency Key Personnel
Telephone Emergency Dial "22"
Telephone Listing
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Emergency Preparedness Employees Handbook
Emergency Notices
Emergency Notice Procedures\Sitewide\Divisions\Contractors
Emergency Response Security Related

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Hazard Abatement Plan
Hazardous Communication Plan/Toxic Chemicals EH&S Doc. 2.1.5
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Hoisting/Rigging Safety Plan
Implementation EH&S Safety Programs & Plans
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 Inspections & Maintenance
Lockout and Tagout
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 TEAM
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Safety Design Review
Safety Goals (Tiger Team Action Plan S&H-011)
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Contractor Motor Vehicles & Traffic Standards

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SAR-92-001 SAR-92-060

(1993 (Fiorillo's) Files 58-309 will be transferred to EH&S Record Center when current Permits expire)

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SAR-91-001 thru SAR-91-058

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 Special Equipment
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Burns & Roe QA/QC Audit Schedule
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Aptus, Inc.
Arbor Hills West Landfill
Analytical Laboratory Q & A Manuals (S.O.P's)
Ashgrove Chanute Cement Plant
Baker & Associates
BDT, Inc.
Bethlehem Apparatus Company, Inc.
Cam Tech Inc.
Chemical Analytic, Inc.
Chem Met
Chester LabNet
CWM Chemical

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Ensco, Inc.
Envotech Management Services
Frontier Chemical
Heritage Treatment Center
Keystone
Laboratory Resources
Marine Shale Processors
Medigen of PA, Inc
Mercury Refining Company, Inc.
S. D. Meyers, Inc
Michigan Recovery
Michigan & Wayne Disposal, Inc.
Mill Service, Inc.

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Summary Reports
Forms

Cabinet 19 Drawer 2

Completed Inspection Reports - 1993
Summary Reports

Cabinet 19 Drawer 3

Completed Inspection Reports
1992

Cabinet 19 Drawer 4

Completed EH&S Inspection Reports
1989 and 1990 and 1991

In-House Energy Management

Cabinet 20 Drawer 1

In-House Energy Management (IHEM) (Series #6200)
Value Engineering Energy Efficiency Reports (Series #4010)
IHEM Project Proposals
IHEM Conservation Survey
 Cogenerations Studies
 Retrofit Projects
Ten Year Energy Management Plan 1991 - 2000
PETC Quarterly Energy Conservation
 Performance Reports
 1993
 1992
 1991
 1990
Surveys
 Construction
 New Buildings
 Energy Recovery
 Plateau Area Complex
Alternative Steam Source
Energy Exchange Information
Automatic Utility Metering (Contact DE-AC22-91PC9170)
Research Plateau

Cabinet 20 Drawer 2

IHEM Funds
 Distribution/Funds
 Year-End Balance
 Cost Statistics
 BOM Cost Distribution Report
Conservation Reminder Memos
 Energy Conservation Opportunities
 Energy Awareness
Conservation Measures
 Reduce Oil Use
 Car Pooling-Ride Sharing
 "Turn-Off-Lights"
 Buildings Temperature Restrictions
 Compressed Work Schedule
Renewable & Water Conservation Program
Efficiency Training (Cabinet 20 Drawer 4)
 Heating, Ventilation, Air Conditioning
Utilities
 Conference
 Gas Rate Schedule
Annual IHEM Poster Contest

Training

Cabinet 20 Drawer 3

Research and Development Training Records (Series #3410)

EH&S Training

Courses

Employee Orientation Training

Training Program

Annual Training Survey

Supervisory & Management Training

Cabinet 20 Drawer 4

Environmental

Catalog

Plan/Program

Air Pollution Management Training

Environmental Laws & Regulations

PCB's Training

Health

Course Schedule & Requirements

BloodBorne Pathogens

Ergonomics

First Aid & CPR

Food Protection

Hearing Conservation Protection

Local Exhaust Ventilation LEV

Radiation Equipment & Handling

Respirators

Scuba Equipment Training

Safety

Course Schedule/Requirements

Accident Investigation

Alarms

Asbestos

In-House-Energy Management

Boiler Efficiency

HVAC Training

Communications

Confined Space Entry

Construction Equipment Operators

Driving/Defensive

EH&S Inspections

Emergency Preparedness

First Responders

Emergency Notification Procedures

Fire

Fire Extinguisher

Fire Protection (Life Safety Code)

Fork Lift Safety

Hazard Communication

Hazardous Materials Handling & Transportation

Hazardous Waste Handling & Transportation

Incident Command System

Instrumentation & Control Fundamentals

MSA Instrumentation & Calibration 510, 516, 5000

Lifting

Lockout/Tagout

Machine Guarding

Material Storage & Handling

National Safety Council/Supervisors Development Program

OSHA Training

Probabilistic Risk Assessment

Quality Control Training

Security

Storage Tanks, Installer/Inspector

Valves & Fittings

Warehouse Training for Safe Operations

Waste Water Treatment Operators

Workers Compensation

Working at Elevated Heights

General Site Information

Cabinet 21 Drawer 1

Accident/Incident Reports (Cabinet 8 Drawer 3)

Accomplishments FY1990, FY1991, FY1992, FY1993

Action Plans (Cabinet 24 Drawer 2-4)

Activities

EH&S Related

General Site

Agreements Interagency (Series #1270)

BOM & PETC Parking

BOM & PETC Cafeteria

BOM & PETC Emergency Preparedness/Response & Rescue

BOM & PETC Site Drainage Water

Hydrogeological Characterization

BOM & PETC Safety & Health Info Exchange

Metes/Bounds

Aerial Surveys

Maps/Locations

Maps/Topographical

Audits & Appraisal Reports

Headquarters

Tiger Team-1991 (Cabinet 24)

EH&S Management 1993 Assessment

Cabinet 21 Drawer 2

Award Fee Packages

FY 1989

FY 1990

FY 1991

Budget Summaries EH&S 1989-1990-1991-1992-1993-1994-1995 (Series #5150)

Real Property Maintenance & Repair Budget 1995

Cabinet 21 Drawer 3

Contractor Information

Analysis Program FY

Development & Facility Utilization Plan (Including Technical Plan)

1988-2008

1992-2012

PETC- Site Development & Facility Utilization Plan Report

PETC-In-house Research & Development Program

Research & Development Cooperative Agreements

Descriptions

Historical Site Operations

Installation Boiler Flue Gas Duct Work

Carbondale Mining Project

Flow Gemini

High Pressure Nitrogen System

Site Air System

Cabinet 21 Drawer 4

R&D Operations

R&D Maintenance Operations Points of Contact

R&D Maintenance Audits Schedule FY 1994

G/C Monthly Topical Report (Operations/Maintenance)

R&D Maintenance Plans

RD-10

RD-20

RD-30

RD-40

RD-50

General Site Information

Cabinet 22 Drawer 1

Emergency Point of Contact (Management)
Mission Function Planning
 Mission Function Statements
Man-Power Survey (Series # 3330)
 Rates of Turnovers
 Staffing Plans & Analysis Relating to EH&S Program
 Requests for Increase in Manpower
Organizational Charts
 TEAM (BRSC, Gilbert/CommonWealth, SAIC)
 DCI
 TRI-COR
 PETC

Cabinet 22 Drawer 2

Occupational S&H Technical Reference Performance Indicators
Reporting & Record Keeping (Series #1332)
 DOE Reporting Requirements
 DOE Standards
 Quarterly Reports
 (Occurrence Reporting System ORPS)
Monthly Status Reports
 BRSC
 DCI
 TRI-COR

Cabinet 22 Drawer 3

Telephone & Automated Equipment as Related to EH&S Activities
Travel
Vulnerability Assessments PETC (Series #1311)
 Internal Control Review
 Federal Managers Financial Integrity Act
 Construction Activities
 Environmental
 Non-Nuclear Facilities
 Safeguards & Security
 Security Self-Assessment
 Pre-Survey Appraisal Questionnaire
 Safety & Health
Word Processing, Work Orders, Copy Center

Cabinet 22 Drawer 4

Real Property Maintenance (Series #4300)
 Automatic Data Processing
 ADP Property
 Buildings
 Property Disposal
Property Inventory
 Federal Property Management Regulations
 Government Owned Book Inventory
 Missing Property Reports
 On-Site Property Inventory
 Property Reporting
 Real Property maintenance Plan
 Storage of Property
 Capital Equipment Fiscal Year

General Site Information

Cabinet 23 Drawer 1

Tiger Team Audit Information
Bartlesville, OK
METC, WV
Rocky Flats, MT
West Valley, NY

Cabinet 23 Drawer 2

Self Assessment (Series #1311)

Baker & Associates Self Assessment for PETC
Checklist/Self Assessment
PETC Self Assessment
Checklist/Self Assessment

Management Plans (All)

PETC/Management Plans
Environmental, Safety, Health
TEAM/Burns & Roe, Gilbert/Commonwealth, SAIC, Management Plans
Environmental, Safety, Health
DCI/Management Plans
Environmental, Safety, Health

Cabinet 23 Drawer 3

Tiger Team Documentation

Assessment Documentation
Cultural Survey (08/06/91)
Pre-Assessment Meeting (Federal/State/Local Regulators)
Schedule Critical Events
Official Audit Notification
Tiger Team Requests for Information
Tiger Team PETC Counterpart Listings
Tiger Team Audit Close-Out

Cabinet 23 Drawer 4

PETC Action Plan (Draft)

EH&S Comments (01/30/92)
Tiger Team Comments (02/10/92)
Responsibilities for Action Plan Items
Changes to Draft Action Plan
Cost Estimates (Tiger Team Environmental Restoration)

General Site Information

Cabinet 24 Drawer 1

Tiger Team Assessment Correspondence
Tiger Team Corrective Action Plan Correspondence
EH&S Activities Milestone Schedules

Fox Pro Data Base

Compiled data rating reports w/costs (October 1992)

Cabinet 24 Drawers 2, 3, & 4

Tiger Team Action Plan Milestones
Drawer 2 - MF-001 to MF-009
SAF-001 to SAF-003
E-001 to E-036

Drawer 3 - S&H-001 to S&H-050

Drawer 4 - S&H-051 to S&H-092

Offsite Projects and Programs

Cabinet 25 Drawer 1

CDIF Butte, Montana
CDIF Transition Information 3/1992
Background Information 3/1992
DOE Off-Site EH&S Oversight
CDIF Trip Report 1992

Environmental

Air Quality Permit 6/8/92
Air Quality Permit 8/26/92
Air Quality Citation 12/14/92
Excess Emission Report 12/14/92

Audits

CDIF Environmental Action Plan
CDIF Environmental Reporting

Cabinet 25 Drawer 2

CDIF NEPA
CDIF RCRA

Emergency Preparedness

CDIF Readiness Assurance Plan

Medical

Services Survey

Reports

Monthly Status Reports 1992, 1993
Quarterly Technical Reports 1992, 1993

Safety

CDIF OSHA Review 1990

Cabinet 25 Drawer 3

Safety Analysis Report
#21 4.2.6.3 (6/4/92) Coal Fired Precombuster Ignition
#22 7.1-1 (7/7/92) Protective/Critical Instrumentation
#24 4.1.4.1 (12/22/92) Channel Integrity Monitor, 4.1.6 Electrical Faults & Arcing
#25 (2/2/92) Plasma Centrifugal Furnace
#25 (2/2/93) 3.2 U.S. Corps Eng's. Lab MK 71 MOD 5 Fuze Destruction
#26 (1/8/93) Channel Integrity Monitor, Replace Slag Removal Pump System
#26 3.1.2 (4/13/93) Overpressurization Primary Chamber 3.1.1 Gas Volume Generation Analysis Results
#27 2.1.3 (2/3/93) Exhaust Gas Treatment System
#28 9.13.5 (4/13/93) Instrumentation

Temporary S&H Variance Request (VAR-92-001)

Safety Quarterly Reports 1992

Security Survey 1992

Facility Security Plan 1992

Cabinet 25 Drawer 4 Open

Cabinet 26 Drawer 1
EH&S Comprehensive Program Plan (See Bookcase)
EH&S Documents 0.0 thru 1.6.9

Cabinet 26 Drawer 2
Documents 1.7 thru 2.13h

Cabinet 26 Drawer 3
Documents 3.0 thru 4.6

Cabinet 26 Drawer 4
EH&S Program Documentation of Program/Plan
Compliance
Controlled Distribution (08-06-93)
Issuance of Controlled Copy Numbers
Documentation/Implementation of Program
Procedures
Program Change & Control (4.6 Revision 1)

NEPA National Environmental Policy Act

Cabinet 27 Drawer 1

Compliance Plan (Series #5440)

On-sight, Off sight Occurrences

Documentation with Agencies Responsible for Administration of Natural Resources

NEPA Permits

Policies & Procedures for Implementation of TSCA, RCRA, Clean Water Act

Clean Air Act

NEPA Guidance & Policies

Delegation of Authority

Lists of Actions

On-going & Proposed CERCLA Actions

On-going & Proposed RCRA Closures & Corrective Actions

NEPA Integrated Documents

State or Local NEPA Type Statutes & Regulations

Description of NEPA Litigations

Memorandums to File

NEPA

FY 1990

Advanced Coal Utilization Program

Alternative Combustion Program

Coal Prep Program

Cabinet 27 Drawer 2

Flue Gas Clean-up Program

MTF Liquifaction Project

Off University Coal Research Program

Bethlehem Steel Program

Passaquoddy

B&W Coal Reburning Program

Trans-Alta

Pure Air

Cabinet 27 Drawer 3

FY 1991

Q.C. Inc.

B & W Limb Demonstration Project

B & W SNRB

WSA SNOX

SCS WF

SCS SCR

SCS TF

W & B LNCR

Bechtel

Airpol

PS Co. (Public Service)

EER Cherokee Station

LIFCA Demostration

Cabinet 27 Drawer 4

PC 89854 thru

PC 91059

NEPA

Cabinet 28 Drawer 1

EA'S Draft & Final (Series #5400)
Clean Coal Program
Coal Liquification Program
Western Energy Company
Advanced Coal Conversion

Cabinet 28 Drawer 2

Southern Company Services-SH14ODA
MK Fergusson
Environmental Impact Statements
Clean Coal Program-New File
Evaluations Check List
List of EA's & EI's
Documents Supporting EA's
Monitoring & Mitigation Reports
Data base Printouts
Current Work Order
Clean Coal Technology Procurement Operations-2 each years
(Proposal folders, Engineering Development - Westinghouse, UT)

Cabinet 28 Drawer 3

OPEN

Environmental

Cabinet 29 Drawer 1

P.C.B's (Series #5400)
Certificates of Disposal
Equipment Containing PCB's
 Bldg. 92 Transformer
 Bldg. 903 Transformer
 Bldg. 922 Transformer

Cabinet 29 Drawer 2

Safety Kleen
Used Oil
Paint Chips
Permit EPA Hazardous Waste Generator
Pesticides-Herbicides
Procurement
Reporting EPA Hazardous Waste Report
RadioActive Waste Shipments
NRC, PADER

Cabinet 29 Drawer 3

Shipping Manifest Certifications
1988, 1989, 1990, 1991, 1992, 1993
Quarterly Reports

Plans & Procedures for Shipments
 Record for Exceptions Opted
 Notice of Violations
 Waste Acceptance Criteria
 Waste Profile Data "FORM C"
 Solvent Contaminate Rags
 Waste Liquid Containers

Cabinet 29 Drawer 4

Regulatory
Administration & Civil Actions
Federal, State Inspection Reports
Federal, State, Local Permit Applications

Sara Title III

General Correspondence
Reporting Procedures
Tier II Reports
 1991, 1992, 1993
Back-Up Reports
 1991, 1992, 1993
EPA Form "R" Reports
Reportable Spills
 Downtherm Spill 04/09/89
 BOM Spill 01/13/92
 MSDS Submittal to SEPC, LEDC, Fire Departments
 To SEPC Facility is Subject to Title III

Environmental

Cabinet 30 Drawer 1
EH&S Records Center Information

Cabinet 30 Drawer 2
Super fund Sites 1980 - 1990, 1992 - 1993 (Series #5400)
Davis Superfund Site 1988
Frontier Superfund Site 1993
Sterling Waste 1990
Envirotech 1990

Cabinet 30 Drawer 3
CRCLA Response Actions
I Pre-Solicitations
II Solicitations
III Award
IV A-Post Award Administration
V B-Correspondence
VI Invoices & Certified Payroll
VII Miscellaneous
VIII Close Out Documents

Cabinet 30 Drawer 4 OPEN