



START

Department of Energy
Richland Field Office
P.O. Box 550
Richland, Washington 99352

93-RPS-276

JUL 19 1993

Dr. D. A. Lauer, Director
Benton-Franklin-Walla Walla Counties
Air Pollution Control Authority
650 George Washington Way
Richland, Washington 99352

Dear Dr. Lauer:

STATE ENVIRONMENTAL POLICY ACT ENVIRONMENTAL CHECKLIST FOR THE ROTARY MODE CORE SAMPLING SYSTEM EXHAUSTER

Enclosed please find a State Environmental Policy Act (SEPA) Environmental Checklist for the rotary mode core sampling system exhauster. The SEPA Environmental Checklist is required to allow you to comply with the requirements of the SEPA. The SEPA process must be completed prior to approval of the Notice of Construction (NOC) previously submitted to your office.

Approval of the NOC is required before the exhauster can be connected to a tank for sampling. Your prompt attention to this matter would be appreciated. Hanford Federal Facility Agreement and Consent Order Milestone M-10-13 requires the restoration of rotary mode core sampling ability by September 30, 1993.

Should you have any questions, please contact me or Mr. S. D. Stites of my staff on (509) 376-8566.

Sincerely,

James E. Rasmussen, Acting Program Manager
Office of Environmental Assurance,
Permits, and Policy

EAP:SDS

Enclosure:
Environmental Checklist

- cc w/encl:
- S. Brush, Ecology
- J. Drabek, Ecology
- R. King, Ecology
- D. Price, WHC

- cc w/o encl:
- R. Oldham, WHC



9413148.0205

9355560D
Enclosure

9413148.0206

**STATE ENVIRONMENTAL POLICY ACT
ENVIRONMENTAL CHECKLIST**

FOR

**THE CONSTRUCTION AND OPERATION OF
ROTARY MODE CORE SAMPLING TRUCK EXHAUSTER**

REVISION 0

May 4, 1993

**WASHINGTON ADMINISTRATIVE CODE
ENVIRONMENTAL CHECKLIST FORMS
[WAC 197-11-960]**

9413148.0207

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

A. BACKGROUND

1. Name of proposed project, if applicable:

Construction and operation of the Rotary Mode Core Sampling Truck Exhauster. This State Environmental Policy Act (SEPA) of 1971 Environmental Checklist is being submitted concurrently with the Notice of Construction (NOC) prepared pursuant to Washington Administrative Code (WAC) 173-460. Within this checklist, "site" refers to the locations where the exhauster will be operated and "Hanford Site" refers to the entire Hanford Reservation.

2. Name of applicants:

U.S. Department of Energy (DOE), Richland Operations Office.

3. Address and phone number of applicants and contact persons:

U.S. Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

Contact:

J. E. Rasmussen, Acting Program Manager
Office of Environmental Assurance,
Permits, and Policy
(509) 376-5441

4. Date checklist prepared:

May 4, 1993

5. Agency requesting the checklist:

State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

6. Proposed timing or schedule: (including phasing, if applicable):

This SEPA Environmental Checklist is being submitted concurrently with the NOC prepared pursuant to WAC 173-460. The NOC must be approved prior to the start of construction, scheduled for September 15, 1993. This will allow compliance with the Hanford Federal Facility Agreement and Consent Order Milestone requiring restoration of rotary mode core sampling by September 30, 1993.

8020-8412146

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

No expansions are currently planned for the sampling of Single-Shell Tank (SST) or Double-Shell Tank (DST) wastes, beyond those currently performed (e.g., push mode core sampling and bottle-on-a-string sampling).

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

An Environmental Assessment is currently being prepared providing detailed information on this proposed Rotary Mode Core Sampling System.

General information concerning the Hanford Facility environment can be found in the *Hanford Site National Environmental Policy Act (NEPA) Characterization*, PNL-6415, Revision 5, December 1992. This document is updated annually by PNL, and provides current information concerning climate and meteorology; ecology; history and archeology; socioeconomic; land use and noise levels; and geology and hydrology. These baseline data for the Hanford Site and its past activities are useful for evaluating proposed activities and their potential environmental impacts.

9. Do you know whether applications are pending for government approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No applications to government agencies are known to be pending for other proposals affecting this action.

10. List any government approvals or permits that will be needed for your proposal, if known.

Approvals or permits that may be required at this time would include those pursuant to the following regulations:

- Radioactive Air Emissions Program, administered by the State of Washington Department of Health pursuant to WAC 246-247
- National Emission Standards for Hazardous Air Pollutants, administered by the U.S. Environmental Protection Agency pursuant to 40 Code of Federal Regulations (CFR) 61, Subpart H
- NOC, administered by State of Washington Department of Ecology and Benton-Franklin-Walla Walla Counties Air Pollution Control Authority pursuant to WAC 173-400, WAC 173-460, and General Regulation 80-7.

60207.911216
9413148.0209

TO BE COMPLETED BY APPLICANT

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

The Rotary Mode Core Sampling Truck will provide sampling capabilities for SST and DST waste that consists of hard salt-cake material. The exhauster to accompany the sampling truck is required to prevent pressurization of the tank, mitigate fugitive emissions, and to provide controls on the emissions during core sampling activities. The truck and exhauster will be moved from tank-to-tank in the 200 East and West Areas of the Hanford Site. No permanent structures will be erected, and the exhauster will be operated only within the confines of an established tank farm. Sampling of each tank will take approximately one month, with a maximum of 15 tanks sampled in a year.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The proposed Rotary Mode Core Sampling Truck Exhauster will be operated within various SST and DST farms within the 200 East and West Areas of the Hanford Site. The 200 Areas are approximately 30 miles (48 kilometers) northwest of the City of Richland, Washington. The exact location of each tank farm has previously been supplied with the Part A Resource Conservation and Recovery Act Permit Applications for the DST and SST Systems. The exhauster will be portable, therefore an exact legal description of the location is not provided.

B. ENVIRONMENTAL ELEMENTS

1. Earth

- a. General description of the site (circle one): Flat, rolling, hilly, steep slopes, mountainous, other _____.

Flat.

- b. What is the steepest slope on the site (approximate percent slope)?

The approximate slope of the land within any tank farm is less than two percent.

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

- c. What general types of soils are found on the site? (e.g., clay, sandy gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.

The soil types in the 200 Areas consist mainly of eolian and fluvial sands and gravel. More detailed information concerning specific 200 Area soil classifications can be found in the "Hanford Site. National Environmental Policy Act (NEPA) Characterization," PNL-6415, Revision 5, December 1992. Farming is not permitted on the Hanford Site.

- d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

- e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

No filling or grading will be necessary to support the proposed activity.

- f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

Erosion is not expected. The soils within each tank farm have been stabilized to prevent erosion.

- g. About what percent of the site will be covered with impervious surfaces after project construction (e.g., asphalt or buildings)?

The proposed activity will not permanently increase or decrease the area covered by impervious surfaces within any tank farm.

- h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

No additional measures are proposed to prevent erosion.

2. Air

- a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities, if known.

Minor amounts of vehicular exhaust may be caused by the equipment used to transport the Rotary Mode Core Sampling Truck and Exhauster between tank farms.

94/3148.0211

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

Emissions from operation of the proposed activity include radionuclides and toxic air pollutants (TAPs). Radionuclide emissions, regulated under 40 CFR 61 Subpart H, WAC 173-480, and WAC 246-247, would be well below the standard of ten millirem per year listed in the regulations. Emissions from the Hanford Site in calendar year 1991, were calculated to result in an offsite dose of 0.007 millirem. Emissions of toxic air pollutants, regulated under WAC 173-460, are not expected to exceed small quantity emission rates. Criteria pollutants also might be emitted, but the quantity is not expected to be significant.

- b. Are there any offsite sources of emissions or odors that may affect your proposal? If so, generally describe.

No.

- c. Proposed measures to reduce or control emissions or other impacts to the air, if any?

The Rotary Mode Core Sampling Truck Exhauster has been designed with High-Efficiency Particulate Air (HEPA) filters, and prefilters to reduce particulate emissions to the atmosphere. Good engineering practices would be followed, and actions would comply with onsite procedures designed to protect the environment and worker safety and health. Administrative control practices will limit air emissions as well as protect worker health.

3. Water

a. Surface

1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

The Columbia River is located from five to seven miles from the 200 Areas of the Hanford Site.

2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No.

9413148.0212

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

There would be no dredging or filling from or to surface water or wetlands.

4. Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

No additional water withdrawals or diversions are anticipated as a result of the proposed action.

5. Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

The 200 Areas of the Hanford Site are not within the 100- or 500-year floodplains "Hanford Site National Environmental Policy Act (NEPA) Characterization," PNL-6415, Revision 5, December 1992).

6. Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground

1. Will groundwater be withdrawn, or will water be discharged to groundwater? Give general description, purpose, and approximate quantities if known.

No groundwater would be withdrawn in support of this project and water would not be discharged to the aquifer. In the vicinity of the 200 Areas, the depth to groundwater is over 246 feet (75 meters).

2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (e.g.: Domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

No additional waste material will be discharged to the ground from septic or other sources.

9413148.0213

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

c. Water Run-off (including stormwater)

1. Describe the source of run-off (including stormwater) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

The Hanford Facility receives only six to seven inches (15.2 to 17.8 centimeters) of annual precipitation. No changes to the operation of the tank farms with respect to storm water will result from the proposed activity.

2. Could waste materials enter ground or surface waters? If so, generally describe.

As a result of the exhauster operation, no waste materials would be expected to enter ground or surface waters. Any spills of material sampled from the tanks would be immediately cleaned up and would not enter the groundwater.

- d. Proposed measures to reduce or control surface, ground, and run-off water impacts, if any:

No additional measures are planned as a result of the proposed action.

4. Plants

- a. Check or circle the types of vegetation found on the site.

- deciduous tree: alder, maple, aspen, other
- evergreen tree: fir, cedar, pine, other
- shrubs
- grass
- pasture
- crop or grain
- wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other
- water plants: water lily, eelgrass, milfoil, other
- other types of vegetation

- b. What kind and amount of vegetation will be removed or altered?

Vegetation is not allowed to grow within the confines of the tank farms. No vegetation will be removed as a result of the proposed activity.

9413148.0214

TO BE COMPLETED BY APPLICANT

- c. List threatened or endangered species known to be on or near the site.

No listed threatened or endangered species are known to exist in or near the tank farms.

- d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

No changes to the landscaping of the tank farms is proposed.

5. Animals

- a. Indicate (by underlining) any birds and animals which have been observed on or near the site or are known to be on or near the site:

birds: hawk, heron, eagle, songbirds,
other:.....
mammals: deer, bear, elk, beaver,
other:.....
fish: bass, salmon, trout, herring, shellfish,
other:.....

There are no animals specifically with the tank farms. Raptors (burrowing owls, ferruginous, redtail, and Swainson's hawks) are seen occasionally in the 200 Areas. Small passerines (sparrows, starlings, finches), mule deer, rabbits, badgers, and coyotes occasionally are seen in the general area.

- b. List any threatened or endangered species known to be on or near the site.

There are no threatened or endangered species specifically in or near the tank farms. Two federal and state listed threatened or endangered species have been identified on the 560 square mile (1,450 square kilometer) Hanford Site along the Columbia River; the bald eagle and peregrine falcon. In addition, the state listed white pelican, sandhill crane, and ferruginous hawk also occur on or migrate through the Hanford Site. Of these five species, only the ferruginous hawk is likely to use the upland shrub-steppe habitat of the 200 Areas. Although ferruginous hawks have been seen in the general area on occasion, ferruginous hawks have not been observed to use the habitat in the vicinity of the tank farms for perching, hunting, or nesting.

- c. Is the site part of a migration route? If so, explain.

No, however the Columbia River is a part of the broad Pacific Flyway for waterfowl migration, and other birds also migrate along the river.

9413148.0215

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

d. Proposed measures to preserve or enhance wildlife, if any:

This project contains no specific measures to preserve or enhance wildlife.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

Diesel fuel will be used to provide power (via a generator) to the rotary mode core sampling truck and exhauster.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

Energy conservation guidelines specified by DOE have been followed, as applicable, in the design of the Rotary Mode Core Sampling Truck Exhauster.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

Possible environmental health hazards to workers could arise from the ventilation of SSTs and DSTs. The hazard could come from exposure to radioactive, dangerous, and/or toxic waste. A chemical spill, release, fire, or explosion could occur only as a result of a simultaneous breakdown in multiple barriers or a catastrophic natural forces event.

1. Describe special emergency services that might be required.

Hanford Site security, fire response, and ambulance services are on call at all times in the event of an onsite emergency. Hanford Site emergency services personnel are specially trained to manage a variety of circumstances involving chemical and/or radioactive constituents and situations.

9413148.0216

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

2. Proposed measures to reduce or control environmental health hazards, if any:

Stringent administrative controls and engineered barriers would be employed to minimize the probability of even a minor incident and/or accident. All personnel would be trained to follow proper procedures during the storage and treatment operations to minimize potential exposure.

Chemical and radiological safety hazards would be mitigated by preventing direct contact with the residual chemical constituents; HEPA filtration of all offgas streams; and protective clothing, appropriate training, and respiratory protection used by onsite personnel as necessary.

b. Noise

1. What type of noise exists in the area which may affect your project (e.g.: traffic, equipment, operation, other)?

While there is a minor amount of traffic, operation, and equipment noise in the vicinity, it is not expected to affect personnel operating the Rotary Mode Core Sampling Truck Exhauster.

2. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (e.g.: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Minor amounts of noise from traffic and equipment are expected primarily during day shift hours.

3. Proposed measures to reduce or control noise impacts, if any:

If Occupational Safety and Health Administration noise standards are exceeded, appropriate measures to protect workers would be employed.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

The tank farms are a part of the U.S. Government-owned Hanford Site, which is used for the management of waste associated with the cleanup from past and/or present production of special nuclear materials, and for energy research. Commercial activities on the Hanford Site include a nuclear power plant and a Washington State administered low-level burial area operated by Ecology.

9413148.0217

TO BE COMPLETED BY APPLICANT

- b. Has the site been used for agriculture? If so, describe.

No portion of the 200 Areas has been used for agricultural purposes since 1943, if ever.

- c. Describe any structures on the site.

Only structures associated with the tank farms operations are located in the area of the tank farms.

- d. Will any structures be demolished? If so, what?

No.

- e. What is the current zoning classification of the site?

The Hanford Site is zoned as an Unclassified Use district by Benton County.

- f. What is the current comprehensive plan designation of the site?

The 1985 Benton County Comprehensive Land Use Plan designates the Hanford Site as the "Hanford Reservation." Under this designation, land on the Hanford Site may be used for "activities nuclear in nature." Nonnuclear activities are authorized "if and when DOE approval for such activities is obtained."

- g. If applicable, what is the current shoreline master program designation of the site?

Does not apply.

- h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

- i. Approximately how many people would reside or work in the completed project?

No additional staff will be hired to operate the Rotary Mode Core Sampling Truck exhauster.

- j. Approximately how many people would the completed project displace?

None.

- k. Proposed measures to avoid or reduce displacement impacts, if any:

Does not apply.

9413148.0218

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

1. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Refer to answer to checklist question B.8.f.

9. Housing

- a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

- b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

- c. Proposed measures to reduce or control housing impacts, if any:

Does not apply.

10. Aesthetics

- a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

The metal stack of the exhauster will be approximately ten feet high. No permanent structures are planned as a part of the proposed activity.

- b. What views in the immediate vicinity would be altered or obstructed?

No views will be permanently obstructed.

- c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

11. Light and Glare

- a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

No additional lighting will be used as a part of the proposed activity.

9413148.0219

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

- b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

- c. What existing offsite sources of light or glare may affect your proposal?

None.

- d. Proposed measures to reduce or control light and glare impacts, if any:

None.

12. Recreation

- a. What designated and informal recreational opportunities are in the immediate vicinity?

None.

- b. Would the proposed project displace any existing recreational uses? If so, describe.

No.

- c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any?

None.

13. Historic and Cultural Preservation

- a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

At this time, no places or objects within the tank farms are under consideration on any lists or registers.

- b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

Personnel from the Pacific Northwest Laboratory Hanford Cultural Resources Laboratory conducted a general cultural resources review of the 200 Areas and issued a clearance for activities within the fencelines of individual tank farms.

9413148.0220

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

- c. Proposed measures to reduce or control impacts, if any:

Does not apply.

14. Transportation

- a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

The tank farms are not accessed by public streets or highways.

- b. Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

The tank farms are not accessible to the public and are not served by public transit.

- c. How many parking spaces would the completed project have? How many would the project eliminate?

No changes to parking areas are planned.

- d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No changes to roads or streets are planned.

- e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No water, rail, or air transportation occur within any tank farm.

- f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

No changes in vehicular trips are anticipated as a result of the proposed activity.

- g. Proposed measures to reduce or control transportation impacts, if any:

None.

12208413146

TO BE COMPLETED BY APPLICANT

EVALUATION FOR
AGENCY USE ONLY

15. Public Services

- a. Would the project result in an increased need for public services (e.g.: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

- b. Proposed measures to reduce or control direct impacts on public services, if any:

None.

16. Utilities

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other:

Electricity and water are generally available within the tank farms.

- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

A diesel powered generator is used as a part of the Rotary Mode Core Sampling Truck equipment.

SIGNATURES

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

J. E. Rasmussen, Acting Program Manager
Office of Environmental Assurance,
Permits, and Policy
U.S. Department of Energy
Richland Operations Office

Date _____

2220.8413148.0222

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author: J. E. Rasmussen, RL
(C. E. Sowa, WHC)

Addressee: D. A. Lauer, APCA

Correspondence No.: Incoming:9307037
XRef:9355560D

Subject: STATE ENVIRONMENTAL POLICY ACT ENVIRONMENTAL CHECKLIST FOR THE ROTARY
MODE CORE SAMPLING SYSTEM EXHAUSTER

INTERNAL DISTRIBUTION

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	
		L. A. Bunes	S2-48	
		R. H. Engelmann	H6-26	
		D. B. Hagmann	S2-46	
		G. W. Jackson, Assignee	H6-21	
		R. J. Landon	H6-22	
		J. J. Luke	H6-25	
		P. J. Mackey	B3-15	
		H. E. McGuire, Level 1	B3-63	
		R. W. Oldham	H6-25	
		J. D. Robinson	H5-09	
		C. E. Sowa	H6-25	
		EPIC	H6-08	
		CES/File/LB	H6-25	

9413148.0223