

Environmental Checklist

GEAE Plant 1 Facility Seattle, Washington

Prepared by:

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RETEC Project Number: GE001-15547-730

Prepared for:

**General Electric Aircraft Engines
1 Neumann Way
Mail Drop T165
Cincinnati, Ohio 45215**

June 25, 2002

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A. Background

1. Name of proposed project, if applicable:

General Electric Aircraft Engines (GEAE) former facility at 220 South Dawson Street in Seattle, Washington.

2. Name of applicant:

General Electric Aircraft Engines (GEAE)

3. Address and phone number of applicant and contact person:

Applicant: General Electric Aircraft Engines (GEAE)

Contact Person: Stephen D. Hill
General Electric Aircraft Engines
1 Neumann Way
Mail Drop T165
Cincinnati, Ohio 45215
(513) 552-5007

4. Date checklist prepared:

June 25, 2002

5. Agency requesting checklist:

Washington State Department of Ecology

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

The tentative schedule for implementation of the interim remedial action is as follows:

May 2002

Submit the revised Interim Action Work Plan (IAWP) to Ecology for review

June 2002

Finalize the IAWP and Agreed Order (AO) with Ecology and the Attorney General's Office

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July 2002

Public Comment Period

August 2002

Ecology prepares Responsiveness Summary
 Comment Review/Revise IAWP and AO, as necessary
 Finalize IAWP and AO

Fall 2002

Finalize design, select contractors
 Obtain permits necessary for the construction

Winter 2002/2003

Install new recovery well and piping
 Perform pump test
 Begin operation of modified recovery system

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

At this time, no additional construction is anticipated. However, following additional investigation activities that will occur over the next 3 years, decisions will be made on the appropriate final remedy for the site.

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

Investigative and cleanup work at the site have been ongoing since 1987. Reports documenting this work are listed in the table below. All of the referenced documents have previously been submitted to Ecology.

Project Phase	Item No.	Activity	Document
Site Assessment	1	1987 Environmental Audit, including collection and analysis of soil samples (2-5 ft. bgs) in the dangerous waste management unit (a waste storage area)	ChemPro, May 1987 <i>Environmental Audit, General Electric Plant # 1</i>
	2	1987 Environmental Audit	CH ₂ M Hill, February 1987 <i>Pre-sale Environmental Audit, General Electric Company</i>
	3	1990 ground penetrating radar survey of the alleyway on the north side of the facility	Williamson & Associates, Inc., 1990 <i>Ground Penetrating Radar Survey for General Electric Co.</i>

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Project Phase	Item No.	Activity	Document
Remedial Investigation	4	1992 Phase I assessment of the property * 18 soil borings, 4 monitoring wells * 22 soil samples, 4 groundwater samples	Dames and Moore, October 1992 <i>Phase I Environmental Site Assessment and Soil and Groundwater Investigation--GEAE Plant 1</i>
	5	1993 assessment of soil-gas, soil and groundwater quality * 14 soil-gas probes, 7 soil borings, 13 groundwater probes * 11 soil samples, 13 groundwater samples 1994 assessment of soil and groundwater quality. * 18 soil probes, 5 groundwater probes, 5 monitoring wells * 54 soil samples, 21 groundwater samples	Dames and Moore, May 1994 <i>Soil and Groundwater Investigation--GEAE Plant 1 Facility</i>
	6	1995 assessment of soil and groundwater quality * 16 soil probes, 7 borings, 8 groundwater probes, 3 monitoring wells * 76 soil samples, 20 groundwater samples	Dames and Moore, April 1995 <i>Supplemental Soil and Groundwater Investigation--GEAE Plant 1 Facility</i>
	7	September 1995 Sampling and analysis of groundwater from 12 monitoring wells	Dames and Moore, November 1995 <i>Groundwater Quality Results September 1995 Assessment and Monitoring--GEAE Plant 1</i>
	8	December 1995 Sampling and analysis of groundwater from 12 monitoring wells	Dames and Moore, October 1996 <i>Groundwater Quality Results for December 1995--GEAE Plant 1 Facility</i>
	9	August 1996 Sampling and analysis of groundwater from monitoring wells and recovery well RW-2.	RETEC, September 1996 <i>August 1996 Groundwater Sampling Results--GEAE S. Dawson Street, Seattle, Washington</i>
	10	1997 geoprobe sampling to assess groundwater quality to downgradient at depth and at the northern property boundary * 10 groundwater samples collected at 4 locations	ThermoRetec, January 1998 <i>October and November 1997 Additional Groundwater Sampling Results at the GEAE S. Dawson Street Site in Seattle, Washington</i>
	11	1998 geoprobe sampling to assess the downgradient groundwater quality west of 2 nd Avenue and to define the northern CVOC-impacted zone boundary * 12 groundwater samples collected at 6 locations	ThermoRetec, February 1999 <i>December 1998 Additional Groundwater Sampling Results at the GEAE S. Dawson Street Site in Seattle, Washington</i>
	12	1999 geoprobe sampling to assess the downgradient groundwater quality west of the Western Cartage building * 9 groundwater samples collected at 4 locations	ThermoRetec, August 1999 <i>June 1999 Additional Groundwater Sampling Results and Modeling Sensitivity Analysis, GEAE - S. Dawson Street Site in Seattle, Washington</i>
	13	1999 geoprobe sampling to assess a potential second chlorinated-impacted area located downgradient of the GE site * 10 groundwater samples collected at 3 locations	ThermoRetec, November 1999 <i>October 1999 Additional Groundwater Sampling Results at the GEAE S. Dawson Street Site in Seattle, Washington</i>

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Project Phase	Item No.	Activity	Document
Remedial Investigation (cont)	14	2000 geoprobe sampling to delineate the CVOCs located along 1 st Avenue and to determine the need for an additional point of compliance well along 2 nd Avenue * 69 groundwater samples collected at 9 locations	ThermoRetec, May 2000 <i>March/April 2000 Additional Groundwater Sampling Results at the GEAE S. Dawson Street Site in Seattle, Washington</i>
Closure of Dangerous Waste Unit	15	Closure Plan for the dangerous waste management unit. The closure plan specified removal of impacted soil and was approved by Ecology.	Dames and Moore, May 1994. <i>Closure Plan for Dangerous Waste Management Unit -- GEAE Plant 1</i>
	16	Closure of the dangerous waste management unit. Impacted soil was removed from the affected area and verified by soil sampling and analysis.	Dames and Moore, March 1995 <i>Closure Report, Dangerous Waste Management Unit - GEAE Plant 1</i>
Feasibility Study	17	Feasibility Study for soil and groundwater. Defined soil options of excavation (with <i>ex-situ</i> treatment or disposal) or <i>in-situ</i> soil vapor extraction. Defined groundwater options of <i>in-situ</i> air sparging or extraction followed by treatment and discharge.	Dames and Moore, April 1995 <i>Feasibility Study--GEAE Plant 1 Facility</i>
	18	Documenting the use of surface water standards	ThermoRetec, October 1998 <i>Groundwater Beneficial Use Determination</i>
	19	Further evaluation of source area remediation options for groundwater.	ThermoRetec, February 2000 <i>Potential source area remediation-GEAE South Dawson Street Property</i>
Remedial Design and Remedial Action	20	Design work for groundwater interim action consisting of a pump-test and discharge water quality assessment. Report provides preliminary extraction system design.	RETEC, June 1996 <i>Pilot Test Results and Preliminary Containment System Design for the GEAE South Dawson Street Property</i>
	21	Comprehensive report on interim action for soil. Approximately 3,055 tons of soil excavated from 12 separate areas and treated in a high-temperature kiln (Holnam, Inc. Seattle, Washington). Cleanup to MTCA Method B levels achieved except for very small pockets near footings and other sensitive structures.	Dames and Moore, December 1996 <i>Independent Interim Remedial Action of Soils--GEAE Plant 1 Facility</i>
	22	Groundwater extraction system designed, constructed and made operational. System comprised of two recovery wells located near west property boundary. Produced water is discharged (without treatment) to the King County sewer by permit. The nominal extraction rate is 16 gpm.	RETEC, October 1996 <i>Groundwater Extraction System Implementation Report</i>
Interim Action Performance Monitoring	23	1996 - 2000 assessment of groundwater quality to monitor interim action performance * 196 groundwater samples collected at 12 monitoring well locations quarterly	ThermoRetec, Submitted Quarterly, Various Dates <i>Groundwater Sampling Results at the GEAE South Dawson Street Site in Seattle, Washington</i>

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Project Phase	Item No.	Activity	Document
Institutional Controls	24	Protocol for verifying the continued existence of institutional controls.	ThermoRetec, June 1999 <i>Institutional Controls, GEAE, South Dawson Street Property</i>
	25	Protocol for verifying the continued existence of institutional controls.	Department of Ecology, July 1999 <i>Ecology comments on the Protocol for Verifying Existence of Institutional Controls Proposal</i>
Offsite Investigation	26	Characterize soil and groundwater quality on the Western Cartage property.	Environmental Partners, Inc., February 2001 <i>Phase II Environmental Site Assessment, McCanta Property</i>

Investigations at the site detected chlorinated volatile organic compounds (CVOCs) in soil and shallow groundwater at the former GEAE facility. The primary CVOCs found at the site include TCE, TCA, PCE, 1,1-Dichloroethene (DCE), and Vinyl Chloride (VC). Investigations have been performed to delineate the extent of soil and shallow groundwater impacts. Independent interim actions for soil (excavation) and groundwater (groundwater recovery) have been implemented to address the areas of CVOC impacts.

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

No

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

King County Department of Natural Resources, Water Pollution Control Division Minor Discharge Authorization Number 543 has been obtained for direct discharge of extracted groundwater to the sanitary sewer system. The permit is valid from August 1, 1999, through August 1, 2004, with a maximum daily flow rate of 25,000 gallons. GEAE will coordinate with Seattle Public Utilities to modify the Discharge Authorization, as needed, to reflect changes to the system.

A utility permit will be obtained from the City of Seattle Department of Engineering since a portion of the investigation and well installation work will be performed within the right-of-way. Specific requirements include the maintenance of local traffic access, use of specific fill materials, and pavement repairs. The Engineering Department requires that the trench containing the groundwater discharge pipe and electrical conduit be backfilled with control density fill (CDF).

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. (Lead agencies may modify this form to include additional specific information on project description.)

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GEAE will modify the current containment system by installing a new recovery well (RW-3) immediately downgradient of the general source area. Well RW-1 will remain in place but will be taken off line. The new well (RW-3) will be installed near the current monitoring well, MW-4, to:

- establish and maintain hydraulic control at the northern property boundary
- provide greater hydraulic influence near the on-site source area
- focus mass removal on the source area.

Well RW-3 will be constructed and operated in a manner similar to the two existing recovery wells. This extraction system will continue to provide capture of impacted groundwater at the site, and will control off site migration of CVOCs in groundwater. The modified recovery and containment system will include operation of RW-2 and RW-3 at a combined flow of approximately 16 gpm.

The new recovery well will be drilled using hollow-stem auger drilling techniques and be constructed of 4-inch Schedule 40 polyvinyl chloride (PVC) extending to 20 feet below ground surface. A precast concrete vault will be placed at the wellhead. Groundwater discharge piping will be 2-inch Schedule 80 PVC, and electrical conduit will be 1-inch Schedule 40 PVC. The piping will tie in to the existing system and will be installed in trenches. The trenches will be backfilled and the pavement repaired as required by the City of Seattle. Electric power for the well will be taken from the existing service to the recovery system.

In addition to the recovery system expansion, downgradient investigation activities will be performed. This investigation will consist of collection of groundwater samples from at least eight geoprobe sampling points, and subsequent installation of at least three monitoring wells. The sample locations are all in public right of way areas. Permanent monitoring wells will be constructed of 2-inch Schedule 40 polyvinyl chloride (PVC). The screened interval will be based on groundwater levels during the geoprobe investigation. The wells will be completed with flush mounted monuments so they will not obstruct traffic.

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 project site is located within the Northwest Quarter of Section 20, Range 4 East, Township 24 North, of the U.S. Geological Survey, Seattle South, Washington, 7.5-minute

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quadrangle. The site is situated on the north side of S. Dawson Street between 2nd Avenue S. and 3rd Avenue S, at 220 South Dawson Street in Seattle, WA.

B. Environmental Elements

1. Earth

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

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

The ground surface is approximately 15 feet above mean sea level (MSL) and generally slopes to the west at a gradient of 1 to 3 feet per mile. There is no apparent topographic relief across the site.

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

Geologic and hydrogeologic conditions at the site were characterized during the various field investigations listed in the table provided in Part A of this Environmental Checklist. Detailed information (e.g., soil property analyses and boring logs) can be found in the *Soil and Groundwater Investigation* (Dames & Moore, 1994), the *Supplemental Soil and Groundwater Investigation* (Dames & Moore, 1995), and the *Pilot Test Results and Preliminary Containment System Design for the GEAE South Dawson Street Property* (RETEC, June 1996). A brief summary of subsurface characteristics is provided here.

Surface asphalt and concrete are underlain by approximately 1 foot of medium-dense to dense, gravel fill. Below the gravel fill are 6 to 10 feet of loose, brown interbedded sandy silt and silty fine sand underlain by loose to medium-dense, gray, fine- to medium-grained sand. The fine- to medium-grained sand extends to a depth of at least 35 feet. Soil has not been sampled below this depth. Geoprobe groundwater sampling suggests that soils may be tighter (slower yielding of water samples) below 35 to 40 feet. There is no prime farmland at the 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.

This project is limited to installation of an additional recovery well and associated piping. The City of Seattle Engineering Department requires that the trench containing the

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groundwater discharge pipe and electrical conduit be backfilled with control density fill (CDF).

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

No

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

No change to the impervious surfaces at the site will be effected.

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

This project is limited to installation of an additional recovery well and associated piping. During any excavation for installation of piping in trenches, best management practices (BMPs) will be used to manage the soil stockpile to prevent runoff.

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.

Minimal dust may be generated during construction activities. On-site construction equipment and hauling vehicles will generate automobile emissions.

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

No.

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

Stockpiles will be covered to the extent practicable to minimize dust during construction.

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 Duwamish River is located approximately ½ mile west of the project area..

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.

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.

None

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

No.

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

No.

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

This extraction system will continue to provide capture of impacted groundwater at the site, and will control off site migration of CVOCs in groundwater. The modified recovery and containment system will include operation of RW-2 and RW-3 at a combined flow of

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approximately 16 gpm. Recovered groundwater will be discharged to the King County sewer system under Discharge Authorization 543 or a modification thereof.

2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: 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.

None.

c. Water runoff (including stormwater):

1) Describe the source of runoff (including storm water) 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.

Stormwater is the only source of runoff at the site. No changes to stormwater runoff will occur as a result of these construction activities.

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

No.

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

The proposed cleanup is intended to improve groundwater quality at the site.

4. Plants

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

None. The site is located in a heavily industrial area of the site. Vegetation is limited to planter boxes located near the building entrance, and limited grass areas adjacent to roadways.

deciduous tree: alder, maple, aspen, other

evergreen tree: fir, cedar, pine, other

shrubs

grass

pasture

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crop or grain

wet soil plants:

water plants: water lily, eelgrass, milfoil, other

other types of vegetation:

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

None.

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

None.

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

None.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

The site is located in a heavily industrial area of the site. Presumably, animals and birds commonly found in urban areas exist on or near the site, such as crows, squirrels, etc.

birds: hawk, heron, eagle, songbirds, other:

mammals: deer, bear, elk, beaver, other:

fish: bass, salmon, trout, herring, shellfish, other:

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

None.

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

No.

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

None.

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.

An electric submersible pump will be installed in the recovery well. During construction, diesel powered vehicles may be used (e.g., hollow stem auger drill rig).

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:

None.

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.

Best management practices will be used to minimize the potential for releases during implementation of remedial actions. A site-specific health and safety plan will be prepared and used to limit worker exposure to hazards on site.

1) Describe special emergency services that might be required.

The site-specific health and safety plan will include emergency contacts and procedures.

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

The purpose of the project is to reduce and control existing environmental health hazards at this site. Short-term risks to human health (hazards associated with construction equipment) may arise during construction, but will be covered as part of the site-specific health and safety plan. Best management practices will be used to minimize the potential for releases during implementation of remedial actions.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

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 (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

During construction activities, noise will be generated by equipment such as backhoe, drill rig and/or trucks used to haul fill material to the site. Work is expected to occur during the regular working hours.

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

On site personnel will be required to use hearing protection, as needed, as part of the site-specific health and safety plan. Other noise control measures are not anticipated.

8. Land and Shoreline use

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

The site, which lies within the Duwamish industrial corridor, is zoned General Industrial 2 (IG2) and is within the Urban designation of the Shoreline District Overlay (U/85) (per communication, Seattle Zoning Department, June 2000). Land uses in the Duwamish industrial corridor are predominantly light industrial (e.g., manufacturing and warehousing) with some commercial businesses, occasional residences, and vacant lots. The adjacent properties and properties between the site and the Duwamish Waterway (one-half mile to the west) are currently used or zoned for industrial purposes. Immediately south of the site (cross-gradient), two residences are located between industrial facilities.

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

No.

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c. Describe any structures on the site.

The 1.7-acre site is occupied by an approximately 50,900 square foot building that was originally constructed in 1949, with additions made in 1968 and 1978. The building is surrounded by asphalt pavement. GEAE occupied the premises in 1949 and began the manufacture and repair of aircraft engine parts in 1959. Manufacturing operations ceased in 1994, and GEAE continued to use the property for office and warehouse space through 1996. Between 1996 and present, the building has been used for various warehousing operations.

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

No.

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

The site, which lies within the Duwamish industrial corridor, is zoned General Industrial 2 (IG2) and is within the Urban designation of the Shoreline District Overlay (U/85) (per communication, Seattle Zoning Department, June 2000).

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

Industrial

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

Not applicable.

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 changes to the current site usage will occur.

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

No changes to the current site usage will occur.

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

No changes to the current site usage will occur.

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

No changes to the current site usage will occur.

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:

None.

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?

None.

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

None.

- 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?

None.

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

None.

- c. What existing off-site 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.

No.

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

None.

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

None.

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 site is located on 2nd Avenue S. and South Dawson Streets in Seattle. No changes to the street system or site access are proposed.

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

Public transit exists in Seattle. A bus stop is located at the corner of 1st Avenue S. and S. Dawson Street.

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

No new parking spaces, none eliminated.

- 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.

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

No.

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

No permanent vehicular trips will be generated by this project.

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

If necessary, a traffic plan will be implemented during construction activities.

15. Public services

- a. Would the project result in an increased need for public services (for example: 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.

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Not applicable.

16. Utilities

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

The site is located in the industrial portion of the City of Seattle. Seattle public services are available but will not be impacted by the project.

- 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.

None. The modified recovery system will include piping that will connect with the existing system piping.

C. Signature

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.

Signature: _____

Date Submitted: _____