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MAY 24 1999

99-EAP-314

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Gentlemen:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) TARGET M-34-05-T01

This letter is to notify the U. S. Environmental Protection Agency that the Tri-Party Agreement target M-34-05-T01 due May 31, 1999, is completed with this letter. This target required that the U. S. Department of Energy, Richland Operations Office complete an annual K-Basins Debris Report. Attached is a copy of the 105-K Basins 1998 Debris Report that describes the quantities, character and management of the K-Basin debris that is being submitted to complete the Tri-Party Agreement M-34-05-T01 Target Date.

This provides record notification that the target has been completed per the annual schedule due date.

If you have any questions or require further information, please contact me at (509) 376-6888 or contact Oscar Holgado, Spent Nuclear Fuels Division, at (509) 373-0589.

Sincerely,

A handwritten signature in black ink, appearing to read "George H. Sanders".

George H. Sanders, Administrator
Hanford Tri-Party Agreement

EAP:MFJ

Enclosure

cc: See next page

Gentlemen
99-EAP-314

-2-

MAY 24 1999

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DOE/RL-99-25
Revision 0A
DRAFT
UC-2000

105-K Basins 1998 Debris Report

Date Published
May 1999



United States
Department of Energy

P.O. Box 550
Richland, Washington 99352

~~Approved for Public Release~~

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Information Clearance Form

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1 GLOSSARY

2

3

4	ALARA	as low as reasonably achievable
5	CFR	Code of Federal Regulations
6	DW	dangerous waste
7	Ecology	Washington State Department of Ecology
8	ERDF	Environmental Restoration Disposal Facility
9	HLW	high-level waste
10	HNF	Hanford Nuclear Facility (document identifier)
11	IWTS	integrated water treatment system
12	IXM	ion exchange module
13	LLW	low-level waste
14	MCO	multi-canister overpack
15	MW	mixed waste
16	SNF	spent nuclear fuel
17	TSD	treatment, storage or disposal
18	TRU	transuranic (waste)
19	WAC	Washington Administrative Code
20	ci	curies
21	ci/day	curies per day
22	ci/ml	curies per milliliter
23	ci/yr	curies per year
24	C°	degrees Celsius
25	kg	kilogram
26	Kpa	kilopascal
27	MTU	metric tons of uranium
28	rem	roentgen equivalent man
29	µci	microcuries
30	µci/l	microcuries per liter

31

32

33

34 DEFINITIONS

35

36 **B-25 Box**--is a painted carbon steel box measuring 4 feet by 4 feet by 6 feet.

37

38 **Dangerous waste (DW)**--Dangerous waste means solid waste designated per WAC 173-303-070
39 through 173-303-100, as dangerous, extremely hazardous, or mixed waste.

40

41 **K Basin Debris**--is defined as any object that is larger than 0.25 inch in any one dimension
42 within the 105-K East (KE) and K West (KW) Spent Nuclear Fuel Basins that is not permanent
43 structure. This definition does not include spent fuel, sludge, or water that is currently
44 maintained within the 105-K Basins.

45

46 **High-level waste (HLW)**--is waste material that results from the reprocessing of SNF, including
47 liquid waste produced directly in reprocessing and any solid waste derived from the liquid that

- 1 contains a combination of transuranic waste and fission products in concentrations requiring
2 permanent isolation as defined by DOE Order 5820.2A.
3
- 4 **Low-level waste (LLW)**--is waste that contains radioactivity and is not classified as high level
5 waste, transuranic waste, or spent nuclear fuel or byproducts material as defined by
6 DOE Order 5820.2A.
7
- 8 **Mixed waste (MW)**--is waste containing both radioactive and, hazardous/dangerous waste
9 components as defined by the *Atomic Energy Act of 1954, Resource Conservation and Recovery*
10 *Act (RCRA) of 1976*, and WAC 173-303.
11
- 12 **Radioactive waste**--is a solid, liquid, or gaseous material that contains radionuclides regulated
13 under the *Atomic Energy Act*, as amended, and is of negligible economic value, considering costs
14 of recovery.
15
- 16 **RCRA Debris**--is defined in 40 CFR 268.2. RCRA debris consist of solid material exceeding a
17 2.4 inch (60 mm) particle size that is intended for disposal and that is: A manufactured object; or
18 plant or animal matter; or natural geologic material and designated as a hazardous waste.
19
- 20 **Remote handled (RH)**--refers to packaged waste whose external surface dose rates exceed
21 200 millirem per hour as defined by DOE Order 5820.2A.
22
- 23 **Sludge**--is a product that is the result of long-term storage of irradiated fuel. This sludge
24 consists of fuel corrosion products, small fuel pieces, fission and activation products, iron and
25 aluminum oxides, concrete grit, dirt, ion exchange resin, and biological material.
26
- 27 **Transuranic (TRU) waste**--is waste contaminated with alpha-emitting transuranium
28 radionuclides with an atomic number greater than 92 with half-lives greater than 20 years and
29 concentrations greater than 100 nanocuries of alpha per gram of waste at the time of
30 characterization. In addition, radium sources and uranium-233 in concentrations greater than
31 100 nanocuries of alpha per gram of waste matrix are also managed as TRU waste as defined by
32 DOE Order 5820.2A.

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METRIC CONVERSION CHART

The following conversion chart is provided to the reader as a tool to aid in conversion.
 Into metric units Out of metric units

If you know	Multiply by	To get	If you know	Multiply by	To get
Length			Length		
inches	25.40	millimeters	millimeters	0.0393	inches
inches	2.54	centimeters	centimeters	0.393	inches
feet	0.3048	meters	meters	3.2808	feet
yards	0.914	meters	meters	1.09	yards
miles	1.609	kilometers	kilometers	0.62	miles
Area			Area		
square inches	6.4516	square centimeters	square centimeters	0.155	square inches
square feet	0.092	square meters	square meters	10.7639	square feet
square yards	0.836	square meters	square meters	1.20	square yards
square miles	2.59	square kilometers	square kilometers	0.39	square miles
square miles	259	hectares	hectares	0.00391	square miles
acres	0.404	hectares	hectares	2.471	acres
Mass (weight)			Mass (weight)		
ounces	28.35	grams	grams	0.0352	ounces
pounds	0.453	kilograms	kilograms	2.2046	pounds
short ton	0.907	metric ton	metric ton	1.10	short ton
Volume			Volume		
fluid ounces	29.57	milliliters	milliliters	0.03	fluid ounces
quarts	0.95	liters	liters	1.057	quarts
gallons	3.79	liters	liters	0.26	gallons
cubic feet	0.03	cubic meters	cubic meters	35.3147	cubic feet
cubic yards	0.76	cubic meters	cubic meters	1.308	cubic yards
Temperature			Temperature		
Fahrenheit	subtract 32 then multiply by 5/9ths	Celsius	Celsius	multiply by 9/5ths, then add 32	Fahrenheit

5 Source: *Engineering Unit Conversions*, M. R. Lindeburg, PE., Second Ed., 1990,
 6 Professional Publications, Inc., Belmont, California.

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105-K BASINS 1998 DEBRIS REPORT

1.0 PURPOSE

8 The purpose of this report is to describe the quantities, character, and management (e.g.,
9 segregation and management subsequent to removal) of 105-K Basins debris managed in
10 calendar year 1998. Where information has changed from that in the 1997 Debris Report, a bar
11 has been placed in the right hand margin.

2.0 BACKGROUND INFORMATION

12
13
14
15
16
17
18 The U.S. Department of Energy, its predecessors, and contractors at the Hanford Site were
19 involved in the production and purification of nuclear defense materials from the early 1940s to
20 the late 1980s. These production activities generated large quantities of liquid and solid mixed
21 waste. This waste is subject to regulation under authority of both the *Resource Conservation and*
22 *Recovery Act (RCRA)* of 1976 and the *Atomic Energy Act of 1954*.

23
24 The Washington State Department of Ecology (Ecology), U.S. Environmental Protection
25 Agency (EPA), and U.S. Department of Energy, Richland Operations Office (DOE-RL) have
26 entered into an agreement (Tri-Party Agreement) to bring the Hanford Site operations into
27 compliance with dangerous waste regulations and for establishing a timetable for cleanup. This
28 annual report provides a quantitative description of debris removed from the basins in calendar
29 year 1998.

30 31 32 2.1 PROGRAM PLANNING STATUS

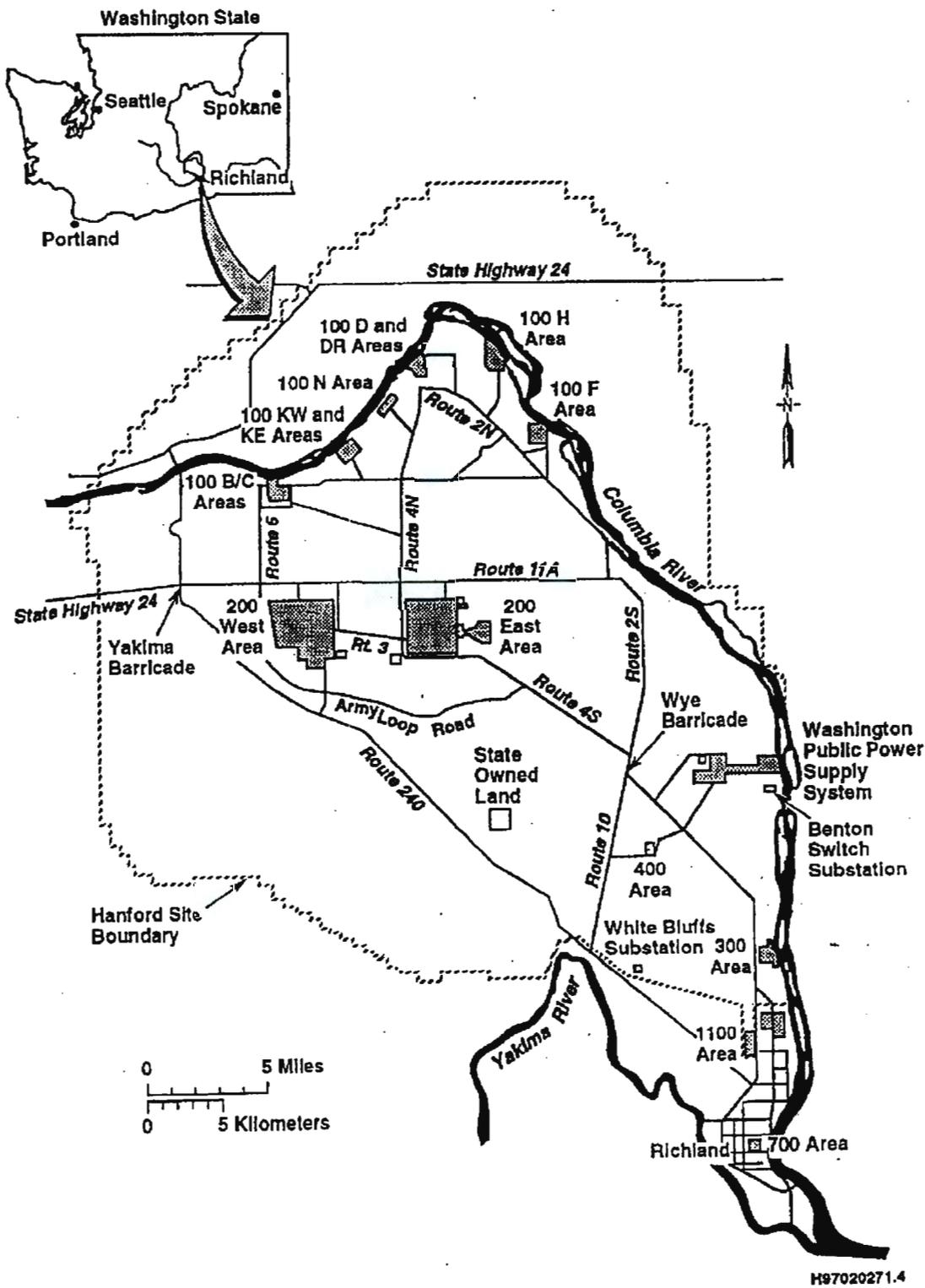
33
34 The extent of debris removal and its management subsequent to removal depends on the
35 completion of the K Basins Spent Nuclear Fuel (SNF) Project and is dependent upon the
36 transition turnover criteria, Section 8.5 of Ecology 1996. This criteria will make it possible to
37 define the 'types' of debris that will be removed as part of the SNF Project and those types which
38 will be removed later.

39 40 41 2.2 FACILITY DESCRIPTION

42
43 The 105-KE and 105-KW Reactors and their associated SNF storage basins were
44 constructed in the early 1950s and are located in the 100-K Area about 1,400 feet from the
45 Columbia River (Figures 1 and 2). Spent nuclear fuel has been stored in these basins since 1975
46 (KE) and 1981 (KW). Approximately 1,100 metric tons of SNF are stored in the 105-KE Basin

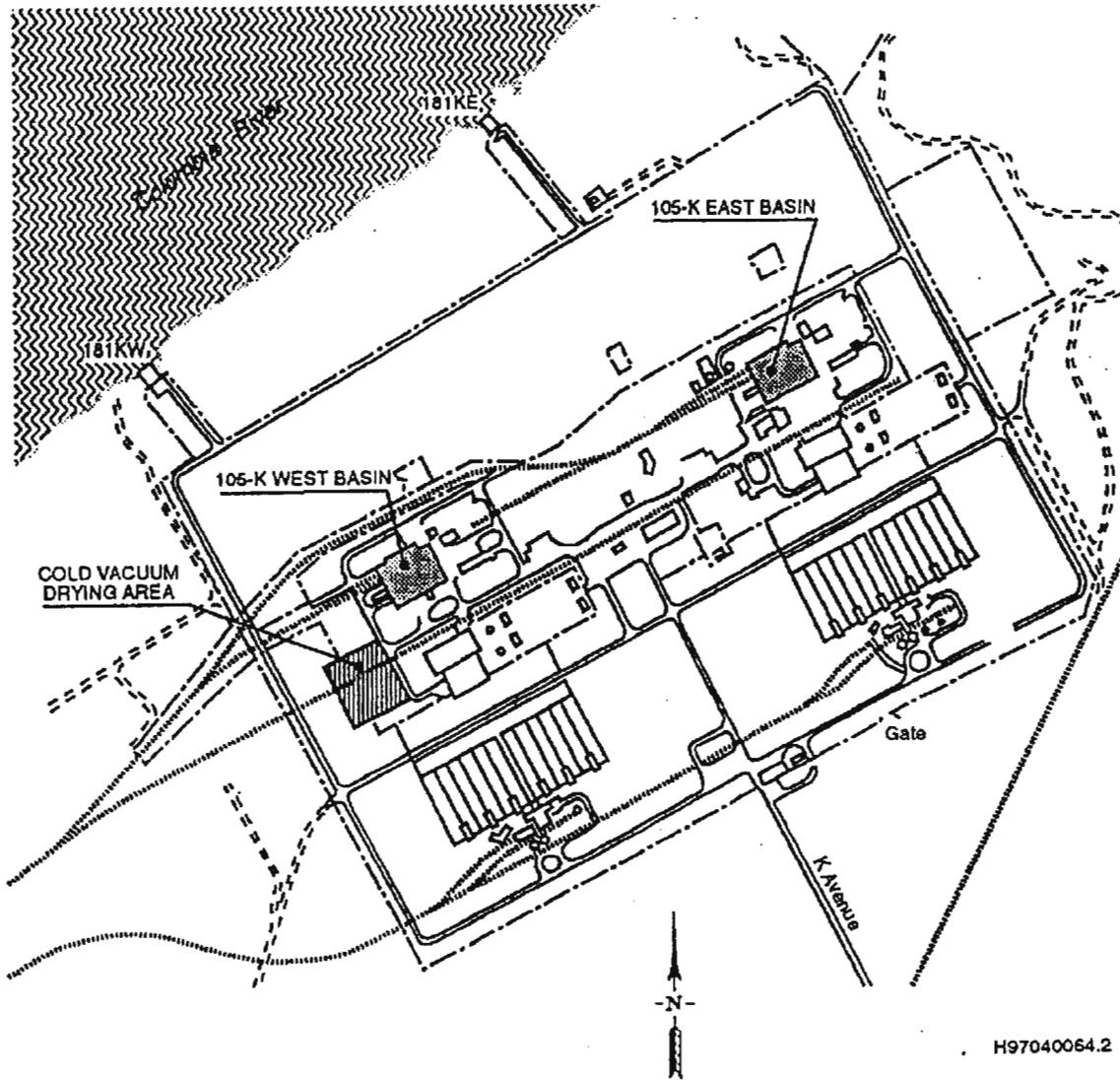
1

Figure 1. Location of the 100-K Area within the Hanford Site.



1

Figure 2. Location of 105-KW and 105-KE Basins within the 100-K Area.



1 underwater in 3,677 open canisters. In addition, the 105-KE Basin contains numerous empty
2 canisters. This SNF has been stored for varying periods of time ranging from 8 to 24 years. The
3 fuel is corroding and an estimated 1,800 cubic feet of sludge, containing radionuclides and
4 miscellaneous materials, have accumulated on the floor of 105-KE Basin.

5
6 Approximately 1,000 metric tons of SNF are stored in the 105-KW Basin under water in
7 3,817 closed canisters. Because the SNF was placed in closed containers before storage, there is
8 no appreciable sludge buildup on the floor of the 105-KW Basin.

9
10 The 105-KE and 105-KW SNF storage basin buildings are structural steel with transite
11 siding and are approximately 275 feet long and 85 feet wide. Figure 3 shows the general facility
12 layout of the 105-KW Basin. This figure depicts the complexity of underwater equipment being
13 installed for the removal of SNF in the 105-KW Basin. Since the 105-KE Basin will be
14 equipped with similar equipment, this figure also is considered representative of the
15 105-KE Basin for purposes of this report.

16 17 18 19 3.0 SCOPE

20
21
22 This report applies only to the debris waste currently being generated at the 105-KE and
23 105-KW Basins, and that waste which will be generated as the result of the *Comprehensive*
24 *Environmental Response Compensation and Liability Act (CERCLA) of 1980* removal action
25 being planned. A more detailed description of 105-K Basins debris resides in Section 4.0.

26 27 28 29 4.0 DESCRIPTION OF K-BASIN DEBRIS

30
31
32 There are two general categories of debris at the 105-K Basins:

- 33
34 • In-pool debris--debris located underwater in the spent fuel pool.
- 35
36 • Out-of-pool debris--debris located within the buildings, but not located underwater in
37 the spent fuel pools.

38 39 40 4.1 IN-POOL DEBRIS

41
42 Table 4-1 provides an estimated volume of certain types of debris located under
43 approximately 16 feet of water (HNF 1997). In-pool debris, which could be highly
44 radiologically contaminated, consists of such items as the following.

- 1 • Process equipment that has no use or planned use, e.g., large and heavy, bulky items
2 such as fuel canister crusher, canister washer (old), fuel segregation equipment,
3 transfer channel equipment, encapsulation dump table, remote-operated manipulators,
4 pumps, hydrocyclones, and cartridge filters.
5
- 6 • Irradiated metal debris consisting of metal objects that were irradiated in the reactor
7 during operation if it can be confirmed that these objects do not contain any spent
8 nuclear fuel bonded or adhered to it.
9
- 10 • Fuel storage equipment consisting of empty fuel element canisters, canister lids, fuel
11 hangers, and poles.
12
- 13 • Structural steel and fabricated structural components, e.g., fuel storage racks and
14 bulkheads.
15
- 16 • Piping and piping components.
17
- 18 • Miscellaneous debris consisting of an assortment of commodities and consumables,
19 e.g., electrical cable, junction boxes, light fixtures, tools, plastic, wood, tarps, tubing,
20 rope, brushes, gloves, face masks, rodents, and other materials contained within the
21 pools.
22

23 In CY 1998 preparations were being made in 105-KE and 105-KW Basins for the
24 removal of spent nuclear fuel. These preparations included the installation of portions to a cask
25 loadout system (e.g. pail support structure) in the 105-KW Basin. Other mechanical and
26 structural systems are planned to be installed in both the 105-KE and 105-KW Basins in
27 CY 1999 that are associated with the Fuel Retrieval System, MCO/Cask Loadout System, and
28 Integrated Water Treatment System. The extent to which these systems will either be removed
29 in the future following fuel removal or stabilized/left in place has not yet been determined. See
30 Section 2.1. Table 4-1 does not contain an estimate of this volume.
31

32

33 4.2 OUT-OF-POOL DEBRIS

34

35 Out-of-pool debris is typically generated from the maintenance, operation, and facility
36 modifications of the 105-KE and 105-KW Basin, but not located in the spent fuel pool itself, i.e.,
37 above water. Out-of-pool debris is comprised of such item as:
38

- 39 • Process Equipment: Process equipment that has no use or planned use comprised of
40 items like the sandfilter, ion exchange columns, piping and piping components, and
41 heat exchangers.
42
- 43 • Consumables: Ion exchange modules (IXMs), cartridge filters, gloves, plastics, tape,
44 anti-C's and other miscellaneous trash generated during maintenance and operational
45 activities.
46

47

1

Table 4-1. 105-KE and 105-KW Basins In-Pool Debris Estimate.

Description	Estimated volume ¹ (cubic feet)	Boxes/Drums needed (estimated) ²
Approximately 3,677 canisters in KE ³	11,031 ¹ /3,352 ³	294 (85 gal drums)
Approximately 3,817 stainless steel canisters in KW	11,523 ¹ /3,500 ³	307 (85 gal drums)
CANISTER TOTALS	22,554¹/6,852³	601 (85 gal drums)
Miscellaneous debris in KE Basin	211	2 (4X4X8) Plywood Boxes
Miscellaneous debris in KE dummy elevator pit	640	5 (4X4X8) Plywood Boxes
Miscellaneous debris in KE technical viewing pit	192	2 (4X4X8) Plywood Boxes
Miscellaneous debris in KE weasel pit	32	1 Boxes
Miscellaneous debris in KE Discharge Chute	96	1 (4X4X8) Plywood Boxes (Repackaging Equipment Left for D&D)
Miscellaneous debris in KW Basin	50	1 (4X4X8) Plywood Box
Approximately 20 poles and tools in KW Basin	68	9 (55 gal) drums
MISCELLANEOUS DEBRIS TOTALS	1,289	12 Boxes/9 drums
Fuel storage racks in KE Basin	782	7 (4X4X8) Plywood Boxes
Fuel storage racks in KW Basin	782	7 (4X4X8) Plywood Boxes
RACK TOTALS	1,564	14(4X4X8) Plywood Boxes
DEBRIS, CANISTERS, AND RACK TOTAL	25,407⁴	26 (4X4X8) Plywood Boxes 601 (85 gal) drums 9 (55 gal) drums

2 ¹Volume shown represents uncrushed canister volume, approximately 3 cubic feet per
3 canister.

4 ²Number of boxes needed have been rounded up to the next whole box.

5 ³Super-compacted @ 3:1 ratio (rounded).

6 ⁴Of this 25,407 cubic feet, 22,554 cubic feet were super compacted to 6,852 cubic feet.

7 ⁵Debris volume subject to change with installation of new mechanical and structural
8 systems required to support fuel removal.

9 ⁶The quantity of fuel canisters in the KE Basin has been revised upward to reflect actual
10 numbers of canisters per recent inventory.

- Demolition Debris: Structural steel and other fabricated components no longer needed and are required to be removed to make room for new fuel handling processes.

5.0 STORAGE AND DISPOSAL FACILITIES

The debris likely will be dispositioned to one or more of the following onsite locations: Central Waste Complex (CWC) for mixed and transuranic waste storage, and the Low-Level Burial Grounds for low-level waste disposal.

An agreement between DOE, Ecology, and EPA has proposed the use of a CERCLA removal action to accelerate the removal of 105-KE and 105-KW Basins from service. Therefore, upon completion of CERCLA documentation, other options for disposal may be available, i.e., the Hanford Site Environmental Restoration Disposal Facility (ERDF). The ERDF is used for the disposal of waste generated from Hanford site environmental restoration projects.

5.1 COMMON REQUIREMENTS FOR BOTH RCRA AND CERCLA STORAGE/DISPOSAL FACILITIES

Before debris waste can be shipped or accepted at the storage or disposal facility, the following criteria must be adequately addressed:

- Characterization
- Designation
- Packaging.

In addition, any other requirement listed in the receiving facilities' waste acceptance criteria must be met.

5.1.1 Characterization

The 105-K Basins debris waste will be characterized to provide for proper segregation, treatment, storage, and/or disposal.

5.1.2 Designation

Debris waste will be designated in accordance with WAC 173-303-070. This designation considers the following:

- Listed discarded chemical products

- 1 • Listed dangerous waste sources
- 2
- 3 • Dangerous waste characteristics, including ignitability, corrosivity, reactivity,
- 4 toxicity, and persistence.
- 5

6 Section 6.0 addresses the designation methodology.

9 5.1.3 Packaging

10
11 Containment packages for debris will be in a condition with no visible cracks, holes,
12 significant corrosion, or other damage that could compromise integrity of the waste package.

15 5.2 STORAGE/DISPOSAL FACILITIES

16
17 The 105-K Basins debris waste can be categorized into one of the following types of waste
18 and will be dispositioned to one or more of the storage/disposal facilities described below:

- 19
20 • Recyclable Material--This is material that can be released from the radiological
21 areas, e.g., paper, scrap metal, and light bulbs that can be reused or reprocessed
22 elsewhere. If this material is radiologically contaminated, it is deemed
23 nonrecyclable. Nonrecyclable material will be managed as a low-level or mixed
24 waste after being removed from the facility.
- 25
26 • Low-Level Waste--Most of 105-K Basins debris will be managed as low-level waste.
27 This waste cannot be radiologically decontaminated for release. This material can be
28 disposed in the low-level burial grounds or the ERDF based on the facilities' waste
29 acceptance criteria.
- 30
31 • Mixed Waste--A small portion of debris will be managed as mixed waste. This
32 debris waste is both a radioactive waste and dangerous waste. This material can be
33 stored at the CWC until treated for permanent disposal. Alternatively, upon
34 completion of CERCLA documentation, other options for disposal may become
35 available.
- 36
37 • Transuranic Waste--A portion of 105-K Basins debris waste will be managed as
38 TRU waste and TRU mixed waste. These wastes will be stored at CWC until a
39 permanent disposal path becomes available.
- 40
41
42

43 6.0 DEBRIS WASTE DESIGNATION METHODOLOGY

44
45
46 The designation methodologies for In-Pool Debris and Out-of-Pool Debris waste is
47 provided in the following sections.

1 All 105-K Basins debris will be designated pursuant to WAC 173-303-070. The
2 105-K Basins debris which is designated as a dangerous waste will also be screened to determine
3 if it also meets the definition of RCRA debris, i.e., over 2.4 inches in size per 40 CFR 268.2. If it
4 does, this type of debris will be managed per 40 CFR 268.

7 6.1 105-KE IN-POOL DEBRIS

9 Some 105-KE In-Pool debris waste has come in contact with sludge located at the bottom
10 of the basin. Sludge is the result of long-term storage of irradiated fuel. This sludge consists of
11 fuel corrosion products, small fuel pieces, fission and activation products, iron and aluminum
12 oxides, concrete grit, dirt, ion exchange resin, and biological material. Analysis of Sludge from
13 the Hanford K East Basin Floor and Weasel Pit (WHC 1996) provides the information describing
14 sludge characteristics.

16 During the sludge analysis, it was discovered that PCBs were present in three of the
17 20 samples taken from 105-KE Basin. Two samples were retrieved from the weasel pit and one
18 sample was retrieved from the floor immediately outside the south loadout pit. The PCB type
19 was Aroclor* 1254 detected in concentration of 47 parts per million and 220 parts per million
20 from the weasel pit, and 104 parts per million from the area immediately outside the south
21 loadout pit. No PCBs were found in the basin water. A "105-K East Basin Polychlorinated
22 Biphenyls Spill Cleanup Plan" (DOE/RL-95-53) was prepared and transmitted to EPA that
23 (1) presented the results of an investigation to identify the PCB source, and (2) proposed a
24 cleanup methodology for debris which was shown to also meet the cleanliness requirements of
25 40 CFR 761.125. A source of PCB contamination was not able to be determined.

27 A preliminary designation of the 105-KE Basin sludge using the characterization
28 information in Analysis of Sludge from the Hanford K East Basin Floor and Weasel Pit
29 (WHC 1996) results in the following waste numbers: D005 (barium), D006 (cadmium), D007
30 (chromium), D008 (lead), D010 (selenium), and D011 (silver). This designation is based on a
31 total metals analysis. Therefore, the results are conservative compared with the Toxicity
32 Characteristic Leaching Procedure (TCLP). Based on a total metals analysis, the highest
33 concentration of a heavy metal found in the sludge is chromium (D007). Chromium, assuming
34 100% TCLP extraction, also has the highest ratio of concentration to the regulation limit
35 (95.5 milligrams per liter: 5 milligrams per liter). Using this ratio, 454 grams of debris would be
36 regulated for chromium if 24 grams of sludge were also present. Because the debris will be
37 washed and visually confirmed, most of the debris would not be regulated as dangerous waste for
38 heavy metal contamination. However, fibrous debris and debris with inner void spaces that
39 cannot be rinsed and/or washed of sludge could require management as a dangerous waste.

41 The WAC 173-303 designates solid waste with a PCB concentration between 2 and
42 50 parts per million with waste number W001, if the contamination is from a source identified in
43 WAC 173-303-9904. Because the source of PCB contamination is unknown, the sludge would
44 not be designated with W001.

*Arochlor is a trademark of Monsanto Chemicals.

1 Debris waste contaminated with K East Basin sludge which would not designate for heavy
2 metal toxicity, may designate under Washington State criteria for persistence if PCB
3 concentrations are greater than 100 parts per million, unless subject to disposal under TSCA.
4 The amount of sludge that would designate a debris waste for the characteristic of persistence
5 would have to be in a ratio of 454 grams of debris to 206 grams of sludge based on the highest
6 concentration of PCBs found. For that debris which can be rinsed and/or washed of sludge, it
7 would not be designated for persistence.

10 6.2 105-KW IN-POOL DEBRIS

11
12 The 105-KW Basin does not have the buildup of sludge on the floor of the basin as is
13 experienced in the 105-KE Basin due to the spent nuclear fuel being stored in closed canisters.
14 Sludge generated through corrosion of the spent nuclear fuel, has been found in these canisters.

15
16 Analyses of 105-KW canister sludge has been completed: HNF-1728, Rev 0, *Analysis of*
17 *Sludge from Hanford K West Basin Canisters*. KW Basin canister sludge was found to contain
18 significant amounts of uranium as well as small amounts of PCBs, i.e., less than 10 parts per
19 million (ppm). All of the canister samples were analyzed for PCBs and several were subjected to
20 semi-volatile organic analysis (SVOA). Organic compounds identified by SVOA consisted
21 primarily of a few ppm of phenols and chlorobenzenes.

22
23 Nineteen samples, subsamples, or duplicates were analyzed for PCBs. Fourteen of the
24 samples were found to contain PCBs at a level of 5.8 ppm or less by weight. Several PCB
25 aroclors were detected, with Aroclor 1254 being the most abundant.

26
27 The WAC 173-303 designates solid waste with a PCB concentration between 2 and
28 50 parts per million with waste number W001, if the contamination is from a source identified in
29 WAC 173-303-9904. Because the source of PCB contamination is unknown, the sludge would
30 not be designated with W001.

31
32 Most debris material will be rinsed and/or washed of all sludge; therefore, the waste would
33 not require disposal as a dangerous waste. However, fibrous debris and debris with inner void
34 spaces that cannot be effectively cleaned of sludge might require disposal as a dangerous waste,
35 if quantities of heavy metals in the waste exceed the characteristic or applicable LDR limits.

38 6.3 OUT-OF-POOL DEBRIS

39
40 Out-of-Pool debris waste is generated from construction, maintenance, and operation
41 activities. This waste generally does not come into contact with any sludge and is managed as a
42 solid waste and designated and disposed accordingly.

43
44 On occasion, chemicals periodically are used to maintain basin water quality (e.g., sodium
45 hydroxide or hydrogen peroxide). Excess chemicals will be returned to inventory or managed as
46 a solid waste.

Table 7-1. 105-KE and 105-KW Basins Debris Removed. (6 sheets)
(In-pool and out-of-pool debris) 01/01/98 to 12/31/98

Package ID Secondary PIN	Waste Type	TSD Accept Date	Content	Disposal Vol (cu ft)
OUT-OF-POOL (105-KW) RMW (CAT1)				
100K-97-007700	M	4/21/98	RADIOACTIVE LEAD BASED PAINT	9.18
9800798	M	9/17/98	RADIOACTIVE MIXED WASTE, LEAD BASED PAINT	9.18
9800800	M	9/17/98	RADIOACTIVE MIXED WASTE/LEAD BASED PAINT	9.18
9700743	M	9/16/98	RMW-CONTAMINATED ELEMENTAL LEAD, WRAPPED IN PLASTIC.	224.95
			PYROFOAM ADDED AS SHORING FOR TRANSPORTATION. WCS# 800-00A	
100K-98-002600	M	11/10/98	MIXED WASTE/CITRISTRIP WITH LEAD BASED PAINT	9.18
				Sub Total
ION EXCHANGE MODULES (CAT 3)				
100K-98-002200	R	7/29/98	LOW LEVEL SOLID WASTE/IXM/WC3	276.87
				Sub Total
NON-COMPACTABLE MISC. (CAT 1)				
100K-97-005100	R	2/27/98	LOW LEVEL SOLID WASTE	144.01
100K-97-005200	R	2/27/98	LOW LEVEL SOLID WASTE	144.01
100K-97-005900	R	2/27/98	LOW LEVEL SOLID WASTE	144.01
9607281	R	9/17/98	L.L.S.W-CONTAMINATED PRE-FILTERS FROM 105-KW. THESE ITEMS CONTAIN ELEMENTAL LEAD FOR SHIELDING.	224.95
100K-98-000400	R	12/22/98	LOW LEVEL SOLID WASTE	143.02
100K-98-000600	R	12/22/98	LOW LEVEL SOLID WASTE	143.02
100K-98-000700	R	12/22/98	LOW LEVEL SOLID WASTE	143.02
9700991	R	11/12/98	RADIOACTIVE DIRT AND ROCKS	9.18
9701082	R	11/12/98	RADIOACTIVE DIRT AND ROCKS	9.18
9606748	R	2/27/98	LOW LEVEL SOLID WASTE	143.02
9606748	R	2/27/98	LOW LEVEL SOLID WASTE	143.02
				Sub Total
				Total for 105-KW (Out-of-Pool)
				Total for 105-KW Basin
OUT-OF-POOL (105-KE) SUPER COMPACTED (CAT 1)				
9773149	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING ACTIVITIES.	10.56
9773150	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING	9.61

Table 7-1. 105-KE and 105-KW Basins Debris Removed. (6 sheets)
(In-pool and out-of-pool debris) 01/01/98 to 12/31/98

Package ID Secondary PIN	Waste Type	TSD Accept Date	Content	Disposal Vol (cu ft)
			ACTIVITIES.	
9773151	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING ACTIVITIES.	9.61
9773145	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING ACTIVITIES.	10.56
9773146	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING ACTIVITIES.	10.56
9773147	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING ACTIVITIES.	10.56
9773148	R	3/5/98	WASTE GENERATED FROM ROUTINE MAINTENANCE AND PROCESSING ACTIVITIES.	10.56
Sub Total				72.02
ION EXCHANGE MODULES (CAT 3)				
100K-98-002100	R	4/23/98	LOW LEVEL SOLID WASTE/IXM/WC3	276.87
100K-98-004700	R	9/3/98	LLW IXM MODULE/WC3	276.87
100K-98-002800	R	7/15/98	LLW/IXM MODULE/WC3	276.87
Sub Total				830.61
NON-COMPACTABLE MISC. (CAT 1)				
100K-97-004700	R	2/27/98	LOW LEVEL SOLID WASTE	144.01
9606739	R	2/27/98	LOW LEVEL SOLID WASTE	143.02
9606740	R	2/27/98	LOW LEVEL SOLID WASTE	143.02
100K-98-003900	R	7/15/98	LLSW- (1) SPACER BURIAL BOX FULL OF HOUSEKEEPING DEBRIS CONSISTING OF METAL, PLASTIC, WOOD, PAPER, RUBBER, CONCRETE, DEBRIS, EQUIPMENT, CLOTH AND GLASS INDIVIDUALLY WRAPPED IN PLASTIC	1540.06
9606729	R	12/22/98	LOW LEVEL SOLID WASTE	143.02
9700758	R	12/22/98	LOW LEVEL SOLID WASTE	224.95
100K-97-000600	R	4/7/98	LOW LEVEL SOLID WASTE	224.95
9700737	R	4/7/98	LOW LEVEL SOLID WASTE	224.95
Sub Total				2787.98
Total for 105-KE (Out-of-Pool)				3690.61

15

DOERL-99-25 REV 0

05/99

Table 7-1. 105-KE and 105-KW Basins Debris Removed. (6 sheets)
(In-pool and out-of-pool debris) 01/01/98 to 12/31/98

Package ID Secondary PIN	Waste Type	TSD Accept Date	Content	Disposal Vol (cu ft)
IN-POOL WASTE (105-KE) CANISTERS (CAT 3)				
9773170	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773171	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773172	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773173	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773174	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773175	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	8.55
9773176	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	8.55
9773555	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49

Table 7-1. 105-KE and 105-KW Basins Debris Removed. (6 sheets)
(In-pool and out-of-pool debris) 01/01/98 to 12/31/98

Package ID Secondary PIN	Waste Type	TSD Accept Date	Content	Disposal Vol (cu ft)
9773556	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773557	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773558	R	3/12/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773559	R	4/3/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773560	R	4/3/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773561	R	4/3/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9773562	R	4/3/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	9.61
9773563	R	4/3/98	LLSW-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	9.61

Table 7-1. 105-KE and 105-KW Basins Debris Removed. (6 sheets)
(In-pool and out-of-pool debris) 01/01/98 to 12/31/98

Package ID Secondary PIN	Waste Type	TSD Accept Date	Content	Disposal Vol (cu ft)
9880178	R	12/21/98	L.L.S.W.-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9880179	R	12/21/98	L.L.S.W.-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9880180	R	12/21/98	L.L.S.W.-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	13.49
9880181	R	12/21/98	L.L.S.W.-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	8.55
9880182	R	12/21/98	L.L.S.W.-METAL (ALUMINUM OR STAINLESS STEEL) CANISTER, CLEANED WITH 15,000 PSI SPRAYER TO REMOVE OXIDATION LAYER AND SLUDGE RESIDUES, COMPACTED INTO METAL DRUMS TO REDUCE OVERALL VOLUME. WASTE CONTAINS NO HAZARDOUS CONSTITUENTS.	8.55
Sub Total				255.77
FUEL STORAGE HANGERS (CAT 1)				
9773606	R	5/8/98	L.L.S.W.-METAL (STAINLESS STEEL FUEL STORAGE HANGERS. THE WOOD SHIPPING CONTAINER WAS SHREDDED AND INBARRELED ALSO. WCS# 102-03, 122-00. REV. 3	13.49
9773607	R	5/8/98	L.L.S.W.-METAL (STAINLESS STEEL FUEL STORAGE HANGERS. THE WOOD SHIPPING CONTAINER WAS SHREDDED AND INBARRELED ALSO. WCS# 102-03, 122-00. REV. 3	13.49
9773608	R	5/8/98	L.L.S.W.-METAL (STAINLESS STEEL FUEL STORAGE HANGERS. THE WOOD SHIPPING CONTAINER WAS SHREDDED AND INBARRELED ALSO. WCS# 102-03, 122-00. REV. 3	8.55
9773609	R	5/8/98	L.L.S.W.-METAL (STAINLESS STEEL FUEL STORAGE HANGERS. THE WOOD SHIPPING CONTAINER WAS SHREDDED AND INBARRELED ALSO. WCS# 102-03, 122-00. REV. 3	9.61

Table 7-1. 105-KE and 105-KW Basins Debris Removed. (6 sheets)
(In-pool and out-of-pool debris) 01/01/98 to 12/31/98

Package ID Secondary PIN	Waste Type	TSD Accept Date	Content	Disposal Vol (cu ft)
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Sub Total 45.14

Total for 105-KE (In-Pool) 300.91

Total for 105-KE Basin 3991.52

TOTAL DEBRIS WASTE FROM ALL OF 105-K BASINS 5920.5

990407.1359

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MAY 24 1999

99-EAP-314

Mr. Douglas R. Sherwood
Hanford Project Manager
U. S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504

Gentlemen:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) TARGET M-34-05-T01

This letter is to notify the U. S. Environmental Protection Agency that the Tri-Party Agreement target M-34-05-T01 due May 31, 1999, is completed with this letter. This target required that the U. S. Department of Energy, Richland Operations Office complete an annual K-Basins Debris Report. Attached is a copy of the 105-K Basins 1998 Debris Report that describes the quantities, character and management of the K-Basin debris that is being submitted to complete the Tri-Party Agreement M-34-05-T01 Target Date.

This provides record notification that the target has been completed per the annual schedule due date.

If you have any questions or require further information, please contact me at (509) 376-6888 or contact Oscar Holgado, Spent Nuclear Fuels Division, at (509) 373-0589.

Sincerely,

ORIGINAL SIGNED BY:

George H. Sanders, Administrator
Hanford Tri-Party Agreement

EAP:MFJ

Enclosure

cc: See next page

bcc:	EAP OFF FILE	R. Holt, SFD
	EAP RDG FILE	J. Escamilla, SFD
	J. Augustenborg, AMW	D. Splett, SFD
	P. Loscoe, SFD	G. Sanders, EAP
	R. Hiegel, SFD	M. Jarvis, EAP
	O. Holgado, SFD	D. Isom, SNF AR File

RECORD NOTE: The draft report was submitted to SFD and reviewed by Carole Rodriguez, Dale Splett and Oscar Holgado. All comments were resolved prior to the formal FDH transmittal of the report. This is the third annual debris report that has been prepared to complete the annual TPA milestone. This letter was prepared by SFD for EAP.

Action Tracking: This letter closes action D199096594.

RECEIVED

Office >	EAP	SFD	OCC	EAP	
Surname >	JARVIS	LOSCOE	WILLIAMSON	SANDERS <i>GH</i>	MAY 25 1999
Date >	<i>[Signature]</i>			<i>5/24/99</i>	DOE RI / CCC

(Please return to Stella Mendoza 8-1906 A5-15/FED FAX 8-0306)

Document No. 11932

99-EAP-314

Mr. Douglas R. Sherwood
Hanford Project Manager
U. S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504

Gentlemen:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT)
COMMITMENT M-34-05-T01

This letter is to notify the U. S. Environmental Protection Agency (EPA) that the Tri-Party Agreement Commitment number M-34-05-T01 has been completed per the May 31, 1999, target due date. This commitment required the U. S. Department of Energy, Richland Operations Office to submit an annual K Basins Debris Report to the EPA and the Washington State Department of Ecology. Enclosed is a copy of the 105-K Basins 1998 Debris Report that describes the quantities, character, and management of the K Basins debris.

This provides record notification that the target has been completed per the annual schedule due date.

If you have any questions or require further information, please contact me at (509) 376-6888, or you may contact Phillip G. Loscoe, Spent Nuclear Fuels Project Division, at (509) 376-7465.

Sincerely,

George H. Sanders, Administrator
Hanford Tri-Party Agreement

EAP:MFJ

Enclosure

cc: See next page

bcc:	EAP OFF FILE	R. G. Holt, SFD
	EAP RDG FILE	J. M. Escamilla, SFD
	J. M. Augustenborg, AMW	D. L. Splett, SFD
	P. G. Loscoe, SFD	G. H. Sanders, EAP
	R. M. Hiegel, SFD	M. F. Jarvis, EAP
	O. M. Holgado, SFD	D. Isom, SNF AR File
	C. A. Rodriguez, SFD	

RECORD NOTE: The draft report was submitted to SFD and reviewed by Carole Rodriguez, Dale Splett and Oscar Holgado. All comments were resolved prior to the formal FDH transmittal of the report. This is the third annual debris report that has been prepared to complete the annual TPA milestone. This letter was prepared by SFD for EAP.

Action Tracking: This letter closes action D199096594.

Office >	EAP	SFD	SFD	OCC WILLIAMSON EAP	RASMUSSEN
Surname >	JARVIS	HIEGEL	LOSCOE	WILLIAMSON	RASMUSSEN
Date >	5/21/99		5/21/99		5/21/99

(Please return to Stella Mendoza 6-1906 A5-15/FED FAX 6-0306)

Document No. 11932

99-EAP-314

Mr. Douglas R. Sherwood
Hanford Project Manager
U. S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504

Gentlemen:

COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT)
COMMITMENT M-34-05-T01

This letter is to notify the U. S. Environmental Protection Agency that the Tri-Party Agreement Commitment number M-34-05-T01 has been completed per the May 31, 1999, target due date. This commitment required that the U. S. Department of Energy, Richland Operations Office complete an annual K-Basins Debris Report. Attached is a copy of the 105-K Basins 1998 Debris Report that describes the quantities, character and management of the K-Basin debris that is being submitted to complete the Tri-Party Agreement M-34-05-T01 Target Date.

This provides record notification that the target has been completed per the annual schedule due date.

If you have any questions or require further information, please contact me at (509) 376-6888 or contact Oscar Holgado, Spent Nuclear Fuels Division, at (509) 373-0589.

Sincerely,

George H. Sanders, Administrator
Hanford Tri-Party Agreement

EAP:MFJ

Enclosure

cc: See next page

bcc:	EAP OFF FILE	R. Holt, SFD
	EAP RDG FILE	J. Escamillio, SFD
	J. Augustenborg, AMW	D. Splett, SFD
	P. Loscoe, SFD	G. Sanders, EAP
	R. Hiegel, SFD	M. Jarvis, EAP
	O. Holgado, SFD	D. Isom, SNF AR File

RECORD NOTE: The draft report was submitted to SFD and reviewed by Carole Rodriguez, Dale Splett and Oscar Holgado. All comments were resolved prior to the formal FDH transmittal of the report. This is the third annual debris report that has been prepared to complete the annual TPA milestone. This letter was prepared by SFD for EAP.

Action Tracking: This letter closes action D199096594.

Office >	EAP	SFD	SFD	OCC <i>BOVIS</i>	EAP	
Surname >	JARVIS <i>MFJ</i>	HIEGEL	LOSCOE	WILLIAMSON	SANDERS	
Date >	<i>May 21 1999</i>			<i>5/21/99</i>		

(Please return to Stella Mendoza 6-1906 AS-15/FED FAX 6-0306)

Document No. 11932

99-EAP-314

Mr. Douglas R. Sherwood
 Hanford Project Manager
 U. S. Environmental Protection Agency
 712 Swift Boulevard, Suite 5
 Richland, Washington 99352

Mr. Michael A. Wilson, Program Manager
 Nuclear Waste Program
 State of Washington
 Department of Ecology
 P.O. Box 47600
 Olympia, Washington 98504

Gentlemen:

**COMPLETION OF HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT)
 COMMITMENT M-34-05-T01**

This letter is to notify the U. S. Environmental Protection Agency (EPA) that the Tri-Party Agreement Commitment number M-34-05-T01 has been completed per the May 31, 1999, target due date. This commitment required the U. S. Department of Energy, Richland Operations Office to submit an annual K Basins Debris Report to the EPA and the Washington State Department of Ecology. Enclosed is a copy of the 105-K Basins 1998 Debris Report that describes the quantities, character, and management of the K Basins debris.

This provides record notification that the target has been completed per the annual schedule due date.

If you have any questions or require further information, please contact me at (509) 376-6888, or you may contact Phillip G. Loscoe, Spent Nuclear Fuels Project Division, at (509) 376-7465.

Sincerely,

George H. Sanders, Administrator
 Hanford Tri-Party Agreement

EAP:MFJ

Enclosure

cc: See next page

bcc: EAP OFF FILE R. G. Holt, SFD
 EAP RDG FILE J. M. Escamillo, SFD
 J. M. Augustenborg, AMW D. L. Splett, SFD
 P. G. Loscoe, SFD G. H. Sanders, EAP
 R. M. Hiegel, SFD M. F. Jarvis, EAP
 O. M. Holgado, SFD D. Isom, SNF AR File
 C. A. Rodriguez, SFD

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Action Tracking: This letter closes action D199096594.

Office >	EAP	SFD	OCC	EAP		
Surname >	JARVIS	LOS COE	WILLIAMSON	SANDERS		
Date >	5/21/99	5/21/99	5/21/99			

(Please return to Stella Mendoza 6-1906 A5-15/FED FAX 6-0306)

Document No 11932