WAG 9

APPENDIX E

SCREENING OF STORAGE TANKS WITHIN WAG- 9 FOR INCLUSION INTO THE COMPREHENSIVE RI/FS

for OPERABLE UNIT 9-04: COMPREHENSIVE RI/FS FINAL WORK PLAN

Prepared By
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Table of Contents

for

Appendix E

Table 1 . . . . . E-1

Table 2 . . . . . E-4

Table 3 . . . . . E-8

Table 4 . . . . . E-13

Table 5 . . . . . E-19

Copy of ANL-W Maintenance Requirement Card E-20

Table 1. Determination of Whether or Not a CERCLA Hazardous Substance Is Present in the ANL-W Tanks

Nearest Facility and Tank Number (column 1)	Description of Tank and the associated process(es) (column 2)	CERCLA hazardous substance(s) contained within the Tank (column 3)	Is a CERCLA hazardous substance(s) present in the Tank? (column 4)
701	EMERGENCY DIESEL GENERATOR - (One 25 gallon above ground day tank in building and one 300 gallon Underground Storage Tank (UST)). The 25 gallon day tank is removed from further evaluation since the total capacity is less than the reporting threshold under IDAPA 16.01.02.851.	Yes[A]	Yes[B]
704D	EMERGENCY DIESEL GENERATOR - 90 gallon above ground day tank.	Yes[A]	Yes[C]
707	DIESEL FUEL OPERATED EMERGENCY FOR FIRE PUMP - 317 gallon above ground tank in building.	Yes[A]	Yes[C]
705A AMMO BUNKER	MAGAZINE, AMMUNITION STORAGE - for security personnel.	Yes[A]	Yes[D]
709 -001	EMERGENCY DIESEL GENERATOR - 1,100 gallon above ground tank in building.	Yes[A]	Yes[C]
709 -009	EMERGENCY DIESEL GENERATOR - 1,100 gallon above ground tank in building.	Yes[A]	Yes[C]
720 D	STANDBY DIESEL GENERATOR - (one 15 gallon and one 10 gallon above ground day tank in building and a 1,000 gallon UST) The two day tanks are removed from further evaluation since the total capacity is less than the reporting threshold under IDAPA 16.01.02.851.	Yes[A]	Yes[B]
721A	#2 BURNER OIL - 500 gallon UST	Yes[A]	Yes[B]
742D	TANK FOR VEHICLE DIESEL FUEL - 6,000 gallon UST removed 3/24/94.	No	No
742-5 by 783	TANK FOR DIESEL - 2,500 gallon UST.	Yes[A]	Yes[B]
742-6 by 783	TANK FOR VEHICLE UNLEADED GAS - 2,500 gallon UST.	Yes[A]	Yes[B]
742G	TANK FOR VEHICLE UNLEADED GAS - 4,000 gallon UST.	Yes[A]	Yes[B]

Table 1. Determination of Whether or Not a CERCLA Hazardous Substance Is Present in the ANL-W Tanks			
Nearest Facility and Tank Number (column 1)	**Description of Tank and the associated process(es)** (column 2)	**CERCLA hazardous substance(s) contained within the Tank** (column 3)	**Is a CERCLA hazardous substance(s) present in the Tank?** (column 4)
750D	TANK FOR DIESEL - 550 gallon UST removed 11/09/90.	No	No
750G	TANK FOR VEHICLE UNLEADED GAS - 3,000 gallon UST removed 11/09/90.	No	No
752	EMERGENCY DIESEL GENERATOR - 50 gallon above ground day tank in building 1,000 gallon UST.	Yes[A]	Yes[B]
754	EMERGENCY DIESEL PUMP - 150 gallon above ground storage tank.	Yes[A]	Yes[B]
755A	TANK FOR #2 BURNER OIL - 100,000 gallon above ground storage tank.	Yes[A]	Yes[E]
755B	TANK FOR #2 BURNER OIL - 60,000 gallon above ground storage tank.	Yes[A]	Yes[E]
765D	TANK FOR EMERGENCY DIESEL GENERATOR - 500 gallon storage tank removed FY 1994.	No	No
768C	TANK FOR #2 BURNER OIL - 10,000 gallon UST.	Yes[A]	Yes[B]
768D	TANK FOR EMERGENCY DIESEL GENERATOR -60 gallon above ground day tank in building and 3,000 gallon UST.	Yes[A]	Yes[B]
774D	TANK FOR EMERGENCY DIESEL GENERATOR - 25 gallon above ground day tank in building and 1,000 gallon UST. The 25 gallon day tank is removed from further evaluation since the total capacity is less than the reporting threshold under IDAPA 16.01.02.851.	Yes[A]	Yes[B]
785D	EMERGENCY DIESEL GENERATOR - 37 gallon above ground day tank and 500 gallon storage tank removed in FY 1994. New 500 gallon double lined above ground tank installed in 1994.	Yes[A]	Yes[B]
789	HEATER FOR HEATING BUILDING 789 - 30 gallon UST removed in 1987 or 1988.	No	No

Table 1. Determination of Whether or Not a CERCLA Hazardous Substance Is Present in the ANL-W Tanks			
Nearest Facility and Tank Number (column 1)	**Description of Tank and the associated process(es)** (column 2)	**CERCLA hazardous substance(s) contained within the Tank** (column 3)	**Is a CERCLA hazardous substance(s) present in the Tank?** (column 4)
798	EMERGENCY DIESEL GENERATOR TANK - 25 gallon above ground day tank in building. The 25 gallon day tank is removed from further evaluation since the total capacity is less than the reporting threshold under IDAPA 16.01.02.851.	Yes[A]	No

A. CERCLA hazardous substance consists of various organics in diesel fuel and #2 fuel oil. Under CERCLA petroleum and natural gas are excluded as "hazardous substances". But, ANL-W will evaluate them as potential release sites because they contain listed hazardous substances.

B. All ANL-W underground storage tanks are scheduled for removal prior to December 1998. These tanks are checked on a weekly basis. The depth of fluids are recorded every Saturday in accordance with ANL-W Maintenance Requirement Card (MRC) attached at end of Appendix E. The volumes of fuel are then calculated and compared with usage and refueling. If the volume of fuel decreases additional readings are taken and if it is determined that the tank is leaking the remaining fuel is removed and the tank is remediated. Since 1990 ANL-W has determined that two tanks have leaked. These tanks were taken off line and removed.

C. The volumes of the above ground day tanks are typically below the IDAPA 16.01.02.851 25 gallon reporting threshold and located inside buildings and any leak would be detected early.

D. Ammunition storage in locked bermed area. The ammunition will be used for its intended purpose.

E. #2 burner oil tanks are contained with a soil berm large enough to contain all 160,000 gallons from tanks.

Table 2. Determine the Operational Status of the Tank				
Nearest Facility and Tank Number (column 1)	**Describe the operational history of the Tank** (column 2)	**Describe the current and future mission of the tank** (column 3)	**Describe the expected remaining operational life of the tank** (column 4)	**Is the Tank still in use?** (column 5)
701	EMERGENCY DIESEL GENERATOR - One 300 gallon Underground Storage Tank UST.	Provide emergency power for gatehouse security.	Provide fuel to power backup power generation equipment for the gatehouse for until the new tank is installed prior to December 1998.	Yes
704D	EMERGENCY DIESEL GENERATOR - 90 gallon above ground day tank in building.	Provide emergency power for the FMF building.	Provide emergency power for the FMF facility for the remainder of the mission.	Yes
707	DIESEL FUEL OPERATED EMERGENCY FOR FIRE PUMP - 317 gallon above ground tank in building.	Provide emergency backup power to operate pumps for fire extinguishing purposes.	Provide emergency backup power to operate pumps in case of a fire for as long as operations continue at the ANL-W facility.	Yes
705A AMMO BUNKER	MAGAZINE, AMMUNITION STORAGE	Provide lockable below ground storage of ammunition.	Provide lockable below ground storage of ammunition for remainder of mission.	Yes
709 -001	EMERGENCY DIESEL GENERATOR - 1,100 gallon above ground tank in building.	Provide emergency power for operations in the FCF building.	Provide emergency power for FCF building for remainder of mission.	Yes
709 -009	EMERGENCY DIESEL GENERATOR - 1,100 gallon above ground tank in building.	Provide emergency power operations in the FCF building.	Provide emergency power for FCF building for remainder of mission.	Yes
720 D	STANDBY DIESEL GENERATOR - A 1,000 gallon UST.	Provide emergency power for TREAT reactor building.	Provide storage of fuel to power emergency power generation for the TREAT reactor facility until the new tank is installed prior to December 1998.	Yes

Table 2.	Determine the Operational Status of the Tank			
Nearest Facility and Tank Number (column 1)	**Describe the operational history of the Tank** (column 2)	**Describe the current and future mission of the tank** (column 3)	**Describe the expected remaining operational life of the tank** (column 4)	**Is the Tank still in use?** (column 5)
721A	#2 BURNER OIL - 500 gallon UST	Provide heat for TREAT office building	Provide storage of fuel to power emergency power generation for the TREAT office building until the new tank is installed prior to December 1998.	Yes
742D	TANK FOR VEHICLE DIESEL FUEL - 6,000 gallon UST removed 3/24/94.	None, tank has been removed.	None, tank has been removed.	No
742G	TANK FOR VEHICLE UNLEADED GAS - 4,000 gallon UST - This tank has been changed over to diesel storage after removal of 6,000 gallon diesel tank 3/24/94.	To provide diesel for the buses.	Provide storage of diesel fuel for busses until the new tank is installed prior to December 1998.	Yes
742-5 - building 783	TANK FOR DIESEL - 2,500 gallon UST.	Tank for diesel equipment in the ANL-W facility.	Provide storage of diesel fuel for equipment inside ANL-W site until the new tank is installed prior to December 1998.	Yes
742-6 - building 783	TANK FOR VEHICLE UNLEADED GAS - 2,500 gallon UST.	Tank for vehicles and equipment powered by gas engines at the ANL-W facility.	Provide storage of gas for equipment inside ANL-W site until the new tank is installed prior to December 1998.	Yes
750D	TANK FOR DIESEL - 550 gallon UST removed 11/09/90.	None, tank has been removed.	None, tank removed	No
750G	TANK FOR VEHICLE UNLEADED GAS - 3,000 gallon UST removed 11/09/90.	None, tank has been removed.	None, tank removed	No

Table 2. Determine the Operational Status of the Tank				
Nearest Facility and Tank Number (column 1)	**Describe the operational history of the Tank** (column 2)	**Describe the current and future mission of the tank** (column 3)	**Describe the expected remaining operational life of the tank** (column 4)	**Is the Tank still in use?** (column 5)
752	EMERGENCY DIESEL GENERATOR - 50 gallon above ground day tank in building 1,000 gallon UST.	Provide emergency power for lab and office building (752).	Provide storage of diesel fuel for power generation equipment to run instrumentation inside ANL-W lab and office building (752) until the new tank is installed prior to December 1998.	Yes
754	EMERGENCY DIESEL PUMP - 150 gallon above ground storage tank in building.	Provide emergency power for EBR-II number 1 well.	Provide storage of diesel fuel for power generation equipment to run groundwater pumps until the new tank is installed prior to December 1998.	Yes
755A	TANK FOR #2 BURNER OIL - 100,000 gallon above ground storage tank.	Provide storage for heating oil #2 for ANL-W site.	Provide storage for heating oil #2 for ANL-W site.	Yes
755B	TANK FOR #2 BURNER OIL - 60,000 gallon above ground storage tank.	Provide storage for heating oil #2 for ANL-W site.	Provide storage for heating oil #2 for ANL-W site.	Yes
765D	TANK FOR EMERGENCY DIESEL GENERATOR - 500 gallon storage tank removed FY 1994.	None, tank has been removed.	None, tank has been removed.	No
768C	TANK FOR #2 BURNER OIL - 10,000 gallon UST.	Provide storage for heating oil #2 for power plant facility.	Provide storage of diesel fuel for power generation equipment to run equipment in the power plant facility until the new tank is installed prior to December 1998.	Yes

Table 2.	Determine the Operational Status of the Tank			
Nearest Facility and Tank Number (column 1)	**Describe the operational history of the Tank** (column 2)	**Describe the current and future mission of the tank** (column 3)	**Describe the expected remaining operational life of the tank** (column 4)	**Is the Tank still in use?** (column 5)
768D	TANK FOR EMERGENCY DIESEL GENERATOR -60 gallon above ground day tank in building and 3,000 gallon UST.	Provide emergency power for power plant building.	Provide storage of diesel fuel for power generation equipment to run equipment in the power plant facility until the new tank is installed prior to December 1998.	Yes
774D	TANK FOR EMERGENCY DIESEL GENERATOR - A 1,000 gallon UST	Provide emergency power for ZPPR support wing	Provide storage of diesel fuel for power generation equipment to run equipment in ZPPR facility until the new tank is installed prior to December 1998.	Yes
785D	EMERGENCY DIESEL GENERATOR - 37 gallon above ground day tank and 500 gallon storage tank removed in FY 1994. New 500 gallon double lined above ground tank installed in 1994.	Provide emergency power for the HFEF facility.	Provide emergency power for the HFEF Facility for its operational life.	Yes
789	HEATER FOR HEATING BUILDING 789 - 30 gallon UST removed in 1987 or 1988.	None, tank has been removed.	None, tank has been removed.	No

Table 3. Determination of Whether a Release Is Possible from the Tank

Nearest Facility and Tank Number (column 1)	Describe the scenairio(s) that would result in a potential release of CERCLA hazardous substance(s) to the environment (column 2)	Describe the factors/conditions controlling/preventing the release of CERCLA hazardous substance(s) to the environment (column 3)	Describe how the factors/conditions are being implemented to prevent the release of CERCLA hazardous substance(s) to the environment (column 4)	Is a release or potential release possible from this tank under current operating conditions (column 5)
701	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
704D	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The above ground storage tanks are monitored weekly by ANL-W[A]. Any leak would be easily seen by personnel inspecting the tank. Any leak would be contained inside the building.	The above ground tank is located inside a building with a concrete floor. Any spill would detected early and contained inside the building and would not be released to the environment.	No
707	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The above ground storage tanks are monitored weekly by ANL-W[A]. Any leak would be easily seen by personnel inspecting the tank. Any leak would be contained inside the building.	The above ground tank is located inside a building with a concrete floor. Any spill would detected early and contained inside the building and would not be released to the environment.	No
705A AMMO BUNKER	Factors that could cause a release to the environment from this bunker are a fire.	All ammunition is stored in original boxes for dry storage. The bunker is built underground and does not have running water or a floor drain.	The building is always locked to prevent unauthorized personnel from entering the bunker. The materials stored in the bunker are used only for their intended purpose.	No
709 -001	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The above ground storage tanks are monitored weekly by ANL-W[A]. Any leak would be easily seen by personnel inspecting the tank. Any leak would be contained inside the building.	The above ground tank is located inside a building with a concrete floor. Any spill would detected early and contained inside the building and would not be released to the environment.	No

Table 3. Determination of Whether a Release Is Possible from the Tank				
Nearest Facility and Tank Number (column 1)	**Describe the scenairio(s) that would result in a potential release of CERCLA hazardous substance(s) to the environment** (column 2)	**Describe the factors/conditions controlling/preventing the release of CERCLA hazardous substance(s) to the environment** (column 3)	**Describe how the factors/conditions are being implemented to prevent the release of CERCLA hazardous substance(s) to the environment** (column 4)	**Is a release or potential release possible from this tank under current operating conditions** (column 5)
709 -009	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The above ground storage tanks are monitored weekly by ANL-W[A]. Any leak would be easily seen by personnel inspecting the tank. Any leak would be contained inside the building.	The above ground tank is located inside a building with a concrete floor. Any spill would detected early and contained inside the building and would not be released to the environment.	No
720 D	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
721A	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
742G	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes

Table 3. Determination of Whether a Release Is Possible from the Tank

Nearest Facility and Tank Number (column 1)	Describe the scenairio(s) that would result in a potential release of CERCLA hazardous substance(s) to the environment (column 2)	Describe the factors/conditions controlling/preventing the release of CERCLA hazardous substance(s) to the environment (column 3)	Describe how the factors/conditions are being implemented to prevent the release of CERCLA hazardous substance(s) to the environment (column 4)	Is a release or potential release possible from this tank under current operating conditions (column 5)
742-5 - building 783	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
742-6 - building 783	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
752	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
754	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The above ground storage tanks are monitored weekly by ANL-W. Any leak would be easily seen by personnel inspecting the tank[A]. Any leak would be contained inside the building.	The above ground tank is located inside a building with a concrete floor. Any spill would detected early and contained inside the building and would not be released to the environment.	No

Table 3. Determination of Whether a Release Is Possible from the Tank

Nearest Facility and Tank Number (column 1)	Describe the scenairio(s) that would result in a potential release of CERCLA hazardous substance(s) to the environment (column 2)	Describe the factors/conditions controlling/preventing the release of CERCLA hazardous substance(s) to the environment (column 3)	Describe how the factors/conditions are being implemented to prevent the release of CERCLA hazardous substance(s) to the environment (column 4)	Is a release or potential release possible from this tank under current operating conditions (column 5)
755A	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The tank is contained in an open unlined bermed area large enough to temporarily contain the heating oil.	The tank is above ground which aids in detection of leaks. A bermed area around the tank would contain most of the material spilled until removal efforts would be initiated.	Yes
755B	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The tank is contained in an open unlined bermed area large enough to temporarily contain the heating oil[A].	The tank is above ground which aids in detection of leaks. A bermed area around the tank would contain most of the material spilled until removal efforts would be initiated.	Yes
768C	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
768D	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes

Table 3. Determination of Whether a Release Is Possible from the Tank				
Nearest Facility and Tank Number (column 1)	**Describe the scenairio(s) that would result in a potential release of CERCLA hazardous substance(s) to the environment** (column 2)	**Describe the factors/conditions controlling/preventing the release of CERCLA hazardous substance(s) to the environment** (column 3)	**Describe how the factors/conditions are being implemented to prevent the release of CERCLA hazardous substance(s) to the environment** (column 4)	**Is a release or potential release possible from this tank under current operating conditions** (column 5)
774D	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume used[A]. Any discrepancies in the volumes would alert the engineer of potential leaks.	All ANL-W USTs are scheduled for removal and replacement of double lined above ground tanks prior to December 1998. If a leak is suspected a tank prior to it's removal the fuel in the tank will be removed and the tank and contaminated soil will be remediated as specified under the UST regulations.	Yes
785D	Factors that could cause a release to the environment from this tank are: a leak, spill during filling the tank, or acts of GOD.	This is a new above ground storage tank that is double walled and installed in 1994.	Any leak would of the inner tank would be detected and contained in the outer tank. Thus preventing any release to the environment.	No

A All ANL-W underground storage tanks are scheduled for removal prior to December 1998. These tanks are checked on a weekly basis. The depth of fluids are recorded every Saturday in accordance with ANL-W Maintenance Requirement Card (MRC) attached at end of Appendix E. The volumes of fuel are then calculated and compared with usage and refueling. If the volume of fuel decreases additional readings are taken and if it is determined that the tank is leaking the remaining fuel is removed and the tank is remediated. Since 1990 ANL-W has determined that two tanks have leaked. These tanks were taken off line and removed.

Table 4. Determination of Whether the Existing Characterization of the Tank Is Adequate for CERCLA Purposes

Nearest Facility and Tank Number (column 1)	Describe the characterization activities that have been conducted on this tank to assess the release or potential release of CERCLA substance(s) to the environment (column 2)	Describe and list the concentration of the CERCLA hazardous substance(s) that are being release or may potentially be released to the environment (column 3)	Describe the monitoring activities being conducted to assess the current release or potential release to the environment from the tank (column 4)	Is the release or potential release from this tank sufficiently characterized by the program(s) controlling the operation of the facility to meet CERCLA needs (column 5)
701	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.
720 D	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.

Table 4.	Determination of Whether the Existing Characterization of the Tank Is Adequate for CERCLA Purposes			
Nearest Facility and Tank Number (column 1)	**Describe the characterization activities that have been conducted on this tank to assess the release or potential release of CERCLA substance(s) to the environment** (column 2)	**Describe and list the concentration of the CERCLA hazardous substance(s) that are being release or may potentially be released to the environment** (column 3)	**Describe the monitoring activities being conducted to assess the current release or potential release to the environment from the tank** (column 4)	**Is the release or potential release from this tank sufficiently characterized by the program(s) controlling the operation of the facility to meet CERCLA needs** (column 5)
721A	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.
742G	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.

Table 4.	Determination of Whether the Existing Characterization of the Tank Is Adequate for CERCLA Purposes			
Nearest Facility and Tank Number (column 1)	**Describe the characterization activities that have been conducted on this tank to assess the release or potential release of CERCLA substance(s) to the environment** (column 2)	**Describe and list the concentration of the CERCLA hazardous substance(s) that are being release or may potentially be released to the environment** (column 3)	**Describe the monitoring activities being conducted to assess the current release or potential release to the environment from the tank** (column 4)	**Is the release or potential release from this tank sufficiently characterized by the program(s) controlling the operation of the facility to meet CERCLA needs** (column 5)
742-5 - building 783	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume ^. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.
742-6 - building 783	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume ^. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.

Table 4.	Determination of Whether the Existing Characterization of the Tank Is Adequate for CERCLA Purposes			
Nearest Facility and Tank Number (column 1)	**Describe the characterization activities that have been conducted on this tank to assess the release or potential release of CERCLA substance(s) to the environment** (column 2)	**Describe and list the concentration of the CERCLA hazardous substance(s) that are being release or may potentially be released to the environment** (column 3)	**Describe the monitoring activities being conducted to assess the current release or potential release to the environment from the tank** (column 4)	**Is the release or potential release from this tank sufficiently characterized by the program(s) controlling the operation of the facility to meet CERCLA needs** (column 5)
752	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.
755A	An inspection of the soil in the bermed area near the location of a 50 gallon spill of #5 fuel oil that occurred in the early 1960's presently does not show remnants of a spill (stained soil)	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	Visual inspections.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.

Table 4. Determination of Whether the Existing Characterization of the Tank Is Adequate for CERCLA Purposes

Nearest Facility and Tank Number (column 1)	Describe the characterization activities that have been conducted on this tank to assess the release or potential release of CERCLA substance(s) to the environment (column 2)	Describe and list the concentration of the CERCLA hazardous substance(s) that are being release or may potentially be released to the environment (column 3)	Describe the monitoring activities being conducted to assess the current release or potential release to the environment from the tank (column 4)	Is the release or potential release from this tank sufficiently characterized by the program(s) controlling the operation of the facility to meet CERCLA needs (column 5)
755B	An inspection of the soil in the bermed area near the location of a 50 gallon spill of #5 fuel oil that occurred in the early 1960's presently does not show remnants of a spill (stained soil)	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	Visual inspections.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.
768C	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.

Table 4.	Determination of Whether the Existing Characterization of the Tank Is Adequate for CERCLA Purposes			
Nearest Facility and Tank Number (column 1)	**Describe the characterization activities that have been conducted on this tank to assess the release or potential release of CERCLA substance(s) to the environment** (column 2)	**Describe and list the concentration of the CERCLA hazardous substance(s) that are being release or may potentially be released to the environment** (column 3)	**Describe the monitoring activities being conducted to assess the current release or potential release to the environment from the tank** (column 4)	**Is the release or potential release from this tank sufficiently characterized by the program(s) controlling the operation of the facility to meet CERCLA needs** (column 5)
768D	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.
774D	Two ANL-W engineers have been contacted to assess the condition of these tanks. The first was an engineer for the facilities and the other the environmental oversight for ANL-W. The information was then compiled on these screening tables.	The concentrations of hazardous substances (namely BTEX) in the fuels varies slightly between shipments.	The underground storage tanks are monitored weekly by ANL-W personnel to compare the volume of the fuel in the tank to the volume [A]. Any discrepancies in the volumes would alert the engineer of potential leaks. All USTs are scheduled for removal and replacement with double walled above ground tanks prior to December 1998.	Yes, ANL-W has in place a procedure to deal with a potential release from all tanks at the ANL-W facility. This can be found in Section 2.5 (Spill Prevention, Control and Countermeasure Plan) of the ANL-W Environment Safety and Health Manual.

A All ANL-W underground storage tanks are scheduled for removal prior to December 1998. These tanks are checked on a weekly basis. The depth of fluids are recorded every Saturday in accordance with ANL-W Maintenance Requirement Card (MRC) attached at end of Appendix E. The volumes of fuel are then calculated and compared with usage and refueling. If the volume of fuel decreases additional readings are taken and if it is determined that the tank is leaking the remaining fuel is removed and the tank is remediated. Since 1990 ANL-W has determined that two tanks have leaked. These tanks were taken off line and removed.

Table 5. Determination of Whether the Risk Associated with the Release or Potential Release from the Tanks Can Be Eliminated from Further Consideration				
Facility Name and Facility Number (column 1)	**Determine if the concentration on contaminant(s) being released or may potentially be released for the initial pathway is below acceptable CERCLA risk level concentrations** (column 2)	**Determine the concentration of contaminants for the secondary pathways being release or may potentially be released from the facility for evaluating the other pathways** (column 3)	**Determine if the concentration for the secondary pathways are below the acceptable CERCLA risk level concentrations** (column 4)	**Is the risk associated with the release or potential release sufficiently addressed by the program(s) controlling the facility operation to eliminate the facility from further consideration** (column 5)
NA	All tanks screened in Tables 1-4	NA	NA	NA

ANL-W MAINTENANCE REQUIREMENT CARD

PLANT SERVICES UTILITIES

WORK REQUEST NO: ~~WA~~ 226807 **DUE DATE:**

MRC NO.: U-750-1 **REV:** 0 **FREQUENCY:** WEEKLY

DESCRIPTION:
AREA WIDE - FUEL OIL & L.P. TANK LEVEL READINGS

PREPARED BY: N. K. BINGHAM **REVISION DATE:** 04/19/95

APPROVED BY:

Manager, Plant Services	4.19.95 Date	Manager, ESWM	Date
Facility Manager	N/A Date	Mgr, ANL-W Maintenance	4/19/95 Date

COMPONENT NUMBER(S):
NONE

SUPPORTING DOCUMENTS:
NONE

HEALTH & SAFETY REQUIREMENTS:

✔ NONE REQUIRED __ Job Safety Analysis __ Radiation Work Permit __ Safe Work Permit

SPECIAL HAZARDS:

NO SMOKING Contact utilities supervisor if tanks require filling.

CONDITIONS:
Facility Condition: ANY **Component Condition:** NONE
Other Conditions: NONE

TAGGING REQUIREMENTS:

1. **DANGER TAGS/LOCKS:** NONE
   Tagged/Locked Component — Tag/Lock-Out Condition

2. **CAUTION TAGS:** NONE
   Tagged Component — Caution Statement

ANL-W MAINTENANCE REQUIREMENT CARD

PLANT SERVICES UTILITIES

MRC NO.: *U-750-1* **REV:** *0*

WORK TO BE PERFORMED:

TAKE FUEL OIL TANK & L.P. GAS TANK READINGS, EACH WEEKEND. ALL READINGS SHALL BE LOGGED IN RED INK IF LESS THAN 50% CAPACITY.

TANK ID#	GALLONS	FUEL-TYPE & MEASURES	LEVEL
755B-002	60,000	#2 DIESEL STORAGE TANK (3,383 GAL/FT)	_____
755A-001	100,000	#2 DIESEL STORAGE TANK (3,672 GAL/FT)	_____
701-012	300	DIESEL STORAGE: (Security Bldg.) 35" max = FULL 17½"= ½ FULL	_____
704-015	90	DIESEL STORAGE: (FMF) 12" = FULL 6" = ½ FULL	_____
707-001	317	DIESEL STORAGE: (Fire House) 36" = FULL 18" = ½ FULL	_____
720-025	1,000	DIESEL STORAGE: (TREAT) 44" = FULL 22" = ½ FULL	_____
721-003	500	DIESEL STORAGE: (TREAT) 47" = FULL 23" = ½ FULL	_____
742-002	4,000	DIESEL STORAGE: (Parking Lot) 75" = FULL 36½" = ½ FULL	_____

LEVEL IN TANK 742-005 IS NOT TO FALL BELOW 1,000 GALLONS PER FCF TSR REQUIREMENT. NOTIFY UTILITIES SUPERVISOR WHEN TANK LEVEL IS 1150 GALLONS (36-1/2").

742-005	2,300	DIESEL STORAGE: (East of Bldg.783) 71" = FULL 36½" = ½ FULL	_____
752A-005	1,000	DIESEL STORAGE: (L&O) 62" = FULL 31" = ½ FULL	_____
754-001	150	DIESEL STORAGE: (Water Pump House) 31" = FULL 15½" = ½ FULL	_____
768-004 Direct Read	3,000	DIESEL STORAGE: (Aux. Boiler) 65" = FULL 32" = ½ FULL	_____
774-003	1,000	DIESEL STORAGE: (ZPPR) 47" = FULL 23" = ½ FULL	_____
785-015	500	DIESEL STORAGE: (HFEF) 24" = FULL 12" = ½ FULL	_____

ANL-W MAINTENANCE REQUIREMENT CARD

PLANT SERVICES UTILITIES

MRC NO.: *U-750-1* **REV:** *0*

WORK TO BE PERFORMED (cont.):

TANK ID#	GALLONS	FUEL-TYPE & MEASURES	LEVEL
798-007	30	DIESEL STORAGE: (RLWTF) 24" = FULL 12" = ½ FULL	_____
GASOLINE TANKS			
742-006 Ensure sign is legible) "UNLEADED GASOLINE"	2,300	GASOLINE STORAGE: (East of Bldg.783) 71" = FULL 36½" = ½ FULL	_____
L.P. TANKS			
752	4 oz.	PROPANE TANK: (L&O) 4 ounces regulated pressure	_____
768	122	PROPANE TANK: (Aux Boiler Room) TANK #3	_____

GALLONS ORDERED: _____

POST-MAINTENANCE COMMENTS:

COMPLETED: **REVIEWED:**

Technician Date Maintenance Supervisor Date