



SNOW AND ICE REMOVAL PLAN

Approved by: *Tammy Courtney* Date: 11-14-19
for Tammy Courtney
Project Manager

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REVISION SUMMARY

Rev. No.	Description of Change	Pages	Date
0	Initial Release – DE-EM0003733, Paducah Infrastructure Support Services Contract.	All	12/01/15
1	Additional information for snow and ice removal on gravel areas.	2	3/24/16
2	Updated dates and supervisor information.	Attachment B	7/30/16
3	Incorporated changes per DOE suggestion	4	8/2/16
4	Updated Attachment B for 2018	Attachment B	7/18/17
5	Updated Attachment B to align with current organizational chart. Updated Attachment C, and added Attachment D.	Attachment B-D	04/26/18
6	General update. Updated duty officer list. Formatted into new template, previous No. SSI.OM-0005.	All	8/30/18
7	Updated in response to FRNP update to Government Furnished Services Matrix Report, for the quarter ending 03/31/19.	Attachment C	12/19/18
8	Updated all attachments. New Logo. Updated facility listings.	Attachment A, B & C	07/30/19
9	Updated Acronym List, Updated Attachment B – Duty Officer List, & Attachment C - priority 3 (other).	7, 19-21, 23	11/14/19

EXECUTIVE SUMMARY

Swift & Staley Team (hereinafter referred to as Infrastructure Support Service Contractor [ISSC]), will provide de-icing (removal of snow or ice) and anti-icing (prevention of snow or ice buildup) for all Paducah Gaseous Diffusion Plant site facilities, including entrances, steps, landings, sidewalks, driveways, roadways, parking areas, and handicapped accessibility areas in accordance with the performance work statement in DE-EM0003733, Paducah Infrastructure Support Services Contract. These activities will be accomplished by a combination of manual and mechanical plowing, scraping, shoveling, and chemical application (salt spreading and brine spraying). Chemical treatment will be implemented based upon weather forecast so that wasted material can be minimized. The official source for weather information/data is the National Oceanic and Atmospheric Administration (NOAA).

The priorities will be addressed as outlined in this document and consistent with the contract, but variation may occur to ensure safe operations for all site personnel. Based upon Lessons Learned from 2014/2015, a Command Center will be created to ensure the outlined priorities are being addressed, as well as to coordinate and prioritize additional requests. The Command Center will be located at C-755-T20 (subject to change). Requests for snow/ice removal should be directed to the Command Center at 270-441-5105, or refer to Attachment B, Duty Officer List.

ACRONYM LIST

ACF	Access Control Facility
CMMS	Computerized Management Maintenance System
DOE	U.S. Department of Energy
FY	Fiscal Year
ISSC	Infrastructure Support Service Contractor
NOAA	National Oceanic and Atmospheric Administration
USW	United Steel Workers

1.0 INTRODUCTION

1.1 Scope

This plan provides an overall outline of the Infrastructure Support Service Contractor (ISSC) snow and ice (snow/ice) removal.

1.2 Purpose

The purpose of this plan is to provide information to the U.S. Department of Energy (DOE) and site contractors on snow prevention and removal activities. This comprehensive plan describes the following: resources (equipment, tools, and manpower), response priorities, and method of accomplishment to adequately pre-treat and/or remove snow/ice at the plant site.

2.0 SUMMARY OF SNOW REMOVAL AND PREVENTION METHODS

Several methods of snow/ice prevention and removal, used before, during, and after winter weather events, are required in a comprehensive approach to ensure safe operations for all site personnel. These methods include pre-treatment activities with brine and salt. Brine and salt applications will continue during and after snow events, utilizing trucks and/or utility vehicles to cover roadways, parking lots, sidewalks, and other pedestrian and vehicle traffic areas. Local salt containers will be provided to designated building entrances.

Snow/ice removal is performed by both mechanical means and manual labor. Mechanical removal is the most efficient means of removing snow/ice and will be implemented in parking lots, roads, and the majority of sidewalks/pathways. Manual removal for snow will be performed by individuals around buildings, on ramps, and other walkways that mechanical equipment cannot safely address. In addition, sand application is performed when temperature extremes limit the effectiveness of ice melting products.

A Work Order will be submitted into the ISSC Computerized Maintenance Management System (CMMS) for each event, differentiating between prevention activities and removal activities.

2.1 Chemical Treatment (Prevent and Removal)

Depending on expected conditions, ISSC will be proactive and apply salt and brine to streets to try to keep snow/ice from bonding to the pavement. Salt and brine applications will be evaluated prior to use. Considerations will be given to protect outfall ditches from unnecessary runoff and minimize any impacts to the environment. As such, salt/brine will not be applied during or prior to rain events since salt would be washed away and have minimal, if any, positive effect. It should be noted that at extreme low temperatures, salt is not effective. When extreme low temperatures are predicted, ISSC

will enhance the salt brine solution with sugar beet juice, which will lower the working temperature of the brine solution to -16 degrees Fahrenheit. During these times, sand may also be applied to areas of concern to minimize slippery conditions. Salt and brine are applied by sprayers and/or spreaders on roads, sidewalks, and parking lots. Equipment used to spread this salt/brine is operated by personnel trained for that equipment. Additionally, salt buckets are strategically stationed at various locations throughout the site for ISSC and other site-contractors to re-apply salt, as needed.

Attachment A, *Equipment and Supplies*, lists available equipment used for snow/ice prevention/removal and bulk salt storage locations.

2.2 Mechanical Removal

In order to expeditiously remove snow/ice and to minimize weather effects on workers, mechanical removal of snow/ice will be implemented where possible. Crews will begin plowing and sanding Priority 1 areas when snow begins to accumulate on the pavement. The main roads coming into the plant will be addressed by the dump trucks equipped with snow plows and salt spreaders. In general, larger equipment such as skid steers, backhoes, and graders will be used on roadways and parking lots. Smaller equipment such as gators with blades, and Kubota mowers with blades and brushes, will be used for sidewalks and small parking areas. A box rake on a skid steer will be used in gravel walking areas.

Caution will be taken while working around parked vehicles such that snow piles will not be pushed along the sides of vehicles. Keeping these areas clear will be accomplished by snow removal equipment blade angles, and the use of smaller equipment, as necessary. Coordination with on-site contractors will take place to relocate vehicles in order to expedite snow removal, improve quality of finished work, and prevent inadvertent vehicle damage. This approach was successfully implemented with the conversion facility during the first 2014/2015 snow storm. Personnel assigned to remove snow will be advised through pre-job briefings to not locate snow against any wall or building. Snow will be pushed to the edges of the parking lots or relocated. Snow piles will be placed in specific locations that will not create additional hazards. ISSC will plow in a manner that does not create a safety hazard and does not obstruct sidewalks, streets, parked vehicles, fire hydrants, refuse dumpsters, obstacles (i.e., water valves, radiological areas, etc.), parking lot entrances, or roadway intersections. In the event of an obstacle, ISSC will notify DOE for further instruction.

Under most snow and ice conditions, gravel areas (roads and parking lots) are not cleared as this can scrape gravel away and deteriorate the surface causing additional issues. ISSC personnel will apply salt to these areas to assist with melting. When temperatures prevent salt from being effective, personnel will spread sand as necessary to improve traction for vehicles and site pedestrians. In snow events greater than four inches, ISSC will clear the snow using equipment such as skid steers, graders, Kubota mowers with blades, or tractors with blades. This equipment will be used to clear the

gravel areas to approximately one inch of snow and then the areas will be treated with salt and/or sand.

Safe and efficient operation of snow removal equipment is critical. As such, equipment operators will be trained specifically on the equipment being operated.

Mechanical damage to curbs (fixed and staked) can occur if the operator is not aware of blade/bucket position. Caution will be taken in parking lots and road edges to avoid damaging the curbs. Any staked curbs will be reset/replaced. Any other damage as a result to operator error will be documented and repaired.

Damage to roads will be minimized by blade/bucket angle. It should be noted that previous degradation of roads and drain systems already have occurred. It is expected that the mechanical equipment will pull small portions of asphalt, concrete, and cold patch due to the condition of the roads/repairs. Any freezing event will degrade the roads further, as evident from the 2014/2015 storm events. Cold patching repairs will be implemented as weather permits.

A walk-down will be conducted prior to winter to identify site damages to parking lot surfaces, curbs, parking lot light poles, site fencing, sidewalks, roads, etc., so all existing deficiencies are identified and corrected before the commencement of snow/ice removal services for the year.

2.3 Manual Removal and Prevention

Attachment A lists non-mechanical equipment (i.e., shovels) used for manual removal of snow/ice, and equipment for application of salt/brine. Manual removal will be used where mechanical equipment cannot be safely utilized; such areas include sidewalks, entrances, ramps, and other similar areas. Salt applications will be performed using salt from buckets or carried in vehicles. Salt buckets will be refilled as required. Facility occupants are encouraged to take ownership of their own safety and address their local area and entrances while the higher priorities are being addressed.

2.4 Application of Sand

During temperatures where salt is ineffective, sand may be spread to improve traction. Sand will be spread via dump trucks or manually.

3.0 PRE-WINTER PLANNING PHASE

3.1 Mechanical Equipment

The equipment specified in Attachment A will be winterized and available for snow removal activities before November 15 of each year.

3.2 Consumables Supplies

3.2.1 SALT

A sufficient supply of salt will be available by December 1 of each year and will be procured based upon previous years use. Sand is a readily available resource in which ISSC will have a sufficient supply stockpiled by December 1 of each year. See Attachment A for estimated quantities and storage locations.

3.2.2 OTHER

Other consumables and equipment are listed in Attachment A. Note that shoe spike availability was derived from a Lessons Learned.

3.3 Labor

To meet the aggressive milestones of the snow/ice removal plan, all ISSC United Steel Workers (USW) personnel may be required for snow removal activities. The primary and secondary lists for winter weather event response are shown in Attachment B. In addition, other ISSC non-USW personnel or outside resources may be required for manual snow removal and fuel delivery activities, and if needed, other duties for which they are trained.

To help ensure adequate personnel are available and to protect the safety of ISSC response personnel, 4-wheel drive government vehicles may be used by personnel to travel home and back when forecasts show severe significant weather conditions. Additionally, shuttle services with 4-wheel drive vehicles may be implemented to ensure there is adequate labor on site. Personnel will be able to obtain adequate accommodations for rest within approved DOE facilities in lieu of traveling home and back to work.

All personnel conducting snow/ice prevention and removal will be equipped with the appropriate cold weather personal protective equipment. Other ISSC services, such as janitorial, may be reduced during heavy snow/ice accumulations to ensure safety of site personnel.

3.4 Duty Officer List

The Duty Officer List shown in Attachment B identifies necessary points of contact. This list is routinely updated and sent to DOE, the Plant Shift Superintendent, and site contractors. The Duty Officer(s) will notify the appropriate work crews to mobilize as directed by ISSC management. Based upon Lessons Learned, a command center will be created to provide control of priorities and update progress.

3.5 Hazard Assessment

Hazard Assessment walk-downs will be performed prior to October 15, as part of winterization activities. The hazards identified will flow into work control documents and be addressed at pre-job briefings.

3.6 Lessons Learned

2018/2019 Lessons Learned has been incorporated into this plan. Any additional Lessons Learned topics may initiate further plan revisions, as necessary.

3.7 Heavy Accumulation of Snow

ISSC will follow the graded approach for snow/ice removal. During heavy snow/ice accumulations, all available resources will be used as needed to ensure safety of site personnel. This will include USW and non-USW personnel, as appropriate. Additional equipment will be rented, as needed. Priority areas will include main roadways and locations where site personnel are located. In snowy high wind/drifted conditions, ISSC will have individual(s) re-evaluate plant roadways to ensure snow has not re-accumulated and will direct additional snow removal action as necessary.

3.8 Site Shutdown due to Heavy Accumulation of Snow and Ice

ISSC snow/ice removal activities will proceed in a manner that reasonably protects ISSC personnel, regardless of any determination by DOE to shut down the site. ISSC will proceed with limited staffing as necessary. Prior to significant events, ISSC will obtain the necessary food and water to sustain the workforce.

4.0 PRIORITY

The following table shows the priority definitions outlined in the contract. Attachment C, *Site Priority Listing*, shows a detailed listing with these priorities.

Table 1. Contract-Defined Priority Areas

Priority Level	Defined Areas
1	Primary routes for ingress and egress onto PGDP parking lots and walkways to operational facilities (e.g., 24/7 operation).
2	Roads leading to parking lots and walkways to facilities where the majority of personnel work.
3	Major connecting roads, perimeter roads, parking lots, and walkways to facilities with personnel.
4	All other PGDP site roads and facilities.

PGDP Paducah Gaseous Diffusion Plant

5.0 SNOW REMOVAL AND PREVENTION PHASES

5.1 General

It is not always feasible to have road and sidewalk surfaces completely clear of snow/ice due to temperatures and the means of removal. As such, the terminology “clear of snow/ice” has been interpreted to be one pass of a plow at a height that will not damage the surface or equipment and/or salt has been applied. As such, each individual needs to take extreme caution when driving and walking. Each individual should be accountable for wearing the proper foot attire and additional foot spikes, as required.

5.2 Weather and Monitoring

ISSC will monitor weather for upcoming events via National Oceanic and Atmospheric Administration (NOAA), which is the DOE official source for weather information/data. NOAA will be used to include start time, end time, and total accumulation. ISSC will interface with other DOE site contractors to address specific needs. The Plant Shift Superintendent also will be relied upon for monitoring activities.

Snow events will include snow, ice, sleet, and freezing rain. ISSC will use the hourly time projections, 12-24 hours in advance, to develop a plan for a significant (greater than four inches or more than four hours in duration) or a non-significant event (less than four inches or less than four hours in duration).

5.3 Pre-Event Evaluation

The Infrastructure Contract states that the Contractor will treat and clear priority areas to maintain safe and clear egress points within a given time period based upon priority. Using NOAA and observed site conditions, snow removal and pre-treatment activities will be scheduled with the goal of meeting time requirements. The following questions will be addressed when deciding if the use of resources will be required prior to pre-set work hours.

- What plant operations and activities require special support?
- What is the projected forecast?
 - Expected rain quantities (i.e., Will it wash away the salt? Will it melt the snow?)
 - Temperature (i.e., Will it be too cold for salt? Will it melt any snow accumulation?)
 - What is the projected period of the event?
 - Is manpower available with ample rest periods (need to let accumulation occur, effectiveness)?

Equipment will be staged in covered areas, when possible, to ensure the equipment is able to function immediately. Staging areas include the C-750 garage, C-755-A garage, and other covered areas within the C-755 Complex.

5.4 Event Phase(s)

The Infrastructure Contract states that the ISSC will maintain safe passage conditions for vehicles and pedestrian traffic. This will take place by the application of salt/brine and both manual and mechanical snow removal activities. The safe passage may be portions of a road, parking lot, or sidewalk. Safe passage does not necessarily mean the complete surface areas are clear. For instance, safe passage of Hobbs Road will be one clear lane coming into the site and one clear lane going out of the site; it will not include center lanes or shoulders. Another instance may be a reduction in the size of C-811 parking lot due to the reduced number of on-site personnel. It should also be noted that during heavy snowfall or long periods of snowfall, and before the priority time requirements, there will be some areas with accumulation.

5.5 Post-Event Phase(s)

The following table shows the time requirements for having the specified priority areas “free and clear”. It should be noted that additional activities will follow.

Table 2. Response Times for Significant and Non-Significant Weather Events

Priority Areas	Non-Significant Weather Events Clearing Time after Event	Significant Weather Clearing Time after Event
1	<4-hours	<8-hours
2	<4-hours	<8-hours
3	<4-hours	<8-hours
4	<12-hours	<16-hours

5.6 Recovery Phase(s)

Recovery includes application of salt/brine and both manual and mechanical snow removal activities. At this point, ISSC will start widening roads, parking lots and sidewalks, and re-applying salt. Additionally, this phase will include cleaning of equipment, with special emphasis on any equipment borrowed from other DOE site contractors. The timeliness of this activity will depend upon exhaustion of labor resources.

6.0 COMMUNICATIONS WITH U.S. DEPARTMENT OF ENERGY AND SITE CONTRACTORS

ISSC will implement the priorities outlined in the Infrastructure Contract and within this plan; however ISSC understands the dynamics of plant activities and changes in priorities. The need to modify plans was experienced in the 2014/2015 snow events and associated Lessons Learned. As a result, a command center was established to provide

one point of contact and only one point of contact for ensuring the right priorities were met. The command center point of contact establishes a dialog with the Plant Shift Superintendent and the designated conversion facility personnel, as well as any assigned DOE representative.

Dialog from any snow/ice event Lessons Learned will be captured and evaluated to determine if new priorities should be established. This process will include working with assigned site representatives through the Shared Site and Site Council processes.

7.0 LEVEL II SNOW AND ICE REMOVAL

Level II snow/ice removal services are those requests that are in addition to the requirements or locations specified in this plan. Upon requests by DOE for Level II snow removal activities, an event-specific scope, schedule, and cost estimate will be prepared for DOE approval. A separate Work Order will be developed to track actual performance/cost. Level II requests will be evaluated against the existing site priorities.

8.0 ATTACHMENTS

Attachment A, *Equipment and Supplies*

Attachment B, *Duty Officer List*

Attachment C, *Site Priority Listing*

Attachment D, *DUF₆ Priority Listing*

ATTACHMENT A – EQUIPMENT AND SUPPLIES

A.1 Mechanical Equipment

Snow Equipment	Qty	Hobbs & Dyke Road	Other Roads	Parking Lot	Sidewalks	Comments
Dump trucks with salt spreaders and snow plows	2	Yes	Yes	Yes	N/A	Primary focus will be DUF ₆ , C-811 and C-810 parking lots, and Hobbs/Dyke Roads
Grader 120 M	1	Yes	Yes	Yes	N/A	Primary Focus will be DUF ₆ , C-811 and C-810 parking lots
Backhoe	1	N/A	Yes	Yes	N/A	
Skid steer with bucket	1	N/A	Yes	Yes	N/A	
Skid steer with blade	2	N/A	Yes	Yes	N/A	
Telescoping forklift with buckets	2	N/A	Yes	Yes	N/A	Used to load salt and other areas, as needed
Gator with blade and salt spreader	4	N/A	Yes	Yes	Yes	
Kubota with blade	3	N/A	Yes	Yes	Yes	
Kubota with brush	2	N/A	N/A	N/A	Yes	
Brine tank in truck	2	Yes	Yes	Yes	N/A	Pre-Treatment
Tractor with plow	1	N/A	Yes	Yes	N/A	
½ Ton Pickup Truck w/ Plow	1	Yes	Yes	Yes	N/A	
Truck with brine applicator	1	Yes	Yes	Yes	N/A	Pre-Treatment
Pull behind 1200 gal Brine tank	1	Yes	Yes	Yes	N/A	Pre-Treatment
Brine machine	1	N/A	N/A	N/A	N/A	

Snow Equipment	Qty	Hobbs & Dyke Road	Other Roads	Parking Lot	Sidewalks	Comments
Loan of D&R Contractor/GFE Equipment		N/A	Yes	Yes	N/A	Should additional equipment be required, ISSC will request the use of government-procured equipment such as, skid steer, backhoe and rubber tired end loader prior to rental of additional equipment.

D&R - Deactivation & Remediation
 DUF₆ - Depleted Uranium Hexafluoride
 GFE - Government Furnished Equipment
 N/A - not applicable
 Qty - quantity
 ISSC - Infrastructure Support Service Contractor

ATTACHMENT A – EQUIPMENT AND SUPPLIES (CONTINUED)

A.2 Consumable Supplies

Salt: Approximately 600 tons of salt will be available by December 1, 2019. Fiscal Year (FY) 2018 used approximately 150 tons of salt during the past winter for snow/ice removal. Sand is a readily available resource in which ISSC will have 75 tons stockpiled by December 1, 2019.

Items	Location(s)	Quantities
Salt	C-755-U, C-732-1	600 tons
Sand	C-755-P	75 tons
Spike shoe covers	C-755-Trailers, C-104, C-304	Small - 5 Medium - 12 Large - 12 X-Large - 12

A.3 Non-Mechanical Equipment

Items	Location(s)	Quantities
Salt hoppers (storage)	C-732-1, C-755-U	1 each
Blowers	C-755 cage	5
Snow shovels	C-755-K	50
Brooms	C-755-K	25
Strait blade shovels	C-755-K	25
Spare salt buckets	C-755-K	25
Spare salt scoops	C-755-K	50

ATTACHMENT B – DUTY OFFICER LIST

DATE		Name	Position	Home Phone	Office Phone	Cell or Other
From (Mon)	To (Sun)					
10/14/19	10/20/19	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		Shannon Castleberry	ES&H	(270) 331-1760	(270) 441-5370	(270) 331-1760
10/21/19	10/27/19	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Katana Darnell	ES&H	(270) 489-2136	(270) 441-5269	(270) 331-1942
10/28/19	11/03/19	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		John Hobbs	ES&H	(270) 349-4097	(270) 441-5018	(270) 556-6889
11/04/19	11/10/19	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Michael Hartman	ES&H	(270) 442-0671	(270) 441-5373	(270) 556-8266
11/11/19	11/17/19	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Michael Davis	ES&H	(270) 933-2122	(270) 441-5397	(270) 331-1949
11/18/19	11/24/19	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		Brad Renfro	ES&H	(270) 444-7021	(270) 441-5401	(270) 210-6009
11/25/19	12/01/19	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Josh Brown	ES&H	(270) 832-1309	(270) 441-5072	(270) 519-2225
12/02/19	12/08/19	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Michael Davis	ES&H	(270) 933-2122	(270) 441-5397	(270) 331-1949
12/09/19	12/15/19	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tom Peeler	Supervisor	(270) 994-7079	(270) 441-5219	(270) 210-9553
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Shannon Castleberry	ES&H	(270) 331-1760	(270) 441-5370	(270) 331-1760

ATTACHMENT B – DUTY OFFICER LIST (CONTINUED)

DATE		Name	Position	Home Phone	Office Phone	Cell or Other
From (Mon)	To (Sun)					
12/16/19	12/22/19	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Katana Damell	ES&H	(270) 489-2136	(270) 441-5269	(270) 331-1942
12/23/19	12/29/19	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		John Hobbs	ES&H	(270) 349-4097	(270) 441-5018	(270) 556-6889
12/30/19	01/05/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Tom Peeler	Supervisor	(270) 564-2204	(270) 441-5219	(270) 210-9553
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Michael Hartman	ES&H	(270) 442-0671	(270) 441-5373	(270) 556-8266
01/06/20	01/12/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Michael Davis	ES&H	(270) 933-2122	(270) 441-5397	(270) 331-1949
01/13/20	01/19/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Brad Renfro	ES&H	(270) 444-7021	(270) 441-5401	(270) 210-6009
01/20/20	01/26/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Josh Brown	ES&H	(270) 832-1309	(270) 441-5072	(270) 519-2225
01/27/20	02/02/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Michael Davis	ES&H	(270) 933-2122	(270) 441-5397	(270) 331-1949
02/03/20	02/09/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Shannon Castleberry	ES&H	(270) 331-1760	(270) 441-5370	(270) 331-1760
02/10/20	02/16/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Katana Damell	ES&H	(270) 489-2136	(270) 441-5269	(270) 331-1942

ATTACHMENT B – DUTY OFFICER LIST (CONTINUED)

DATE		Name	Position	Home Phone	Office Phone	Cell or Other
From (Mon)	To (Sun)					
02/17/20	02/23/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		John Hobbs	ES&H	(270) 349-4097	(270) 441-5018	(270) 556-6889
02/24/20	03/01/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Michael Hartman	ES&H	(270) 442-0671	(270) 441-5373	(270) 556-8266
03/02/20	03/08/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		John Hobbs	ES&H	(270) 349-4097	(270) 441-5018	(270) 556-6889
03/09/20	03/15/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Brad Renfro	ES&H	(270) 444-7021	(270) 441-5401	(270) 210-6009
03/16/20	03/22/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Steve Cavanaugh	Supervisor	(270) 519-9278	(270) 441-5408	(270) 331-7814
		Chris Moore	Supervisor	(270) 519-1085	(270) 441-5067	(270) 519-1085
		Josh Brown	ES&H	(270) 832-1309	(270) 441-5072	(270) 519-2225
03/23/20	03/29/20	Donnie Bell	Commander	(270) 994-7079	(270) 441-5948	(270) 331-0764
		Tom Peeler	Supervisor	(270) 462-2275	(270) 441-5219	(270) 210-9553
		David Rose	Supervisor	(270) 226-3590	(270) 441-5201	(270) 349-0747
		Michael Davis	ES&H	(270) 933-2122	(270) 441-5397	(270) 331-1949
03/30/20	04/05/20	Kyle Gore	Commander	(270) 534-0714	(270) 441-5105	(270) 217-9971
		Tim Cude	Supervisor	(270) 804-8444	(270) 441-5844	(270) 816-0777
		Roger Hagan	Supervisor	(270) 564-2204	(270) 441-5094	(270) 331-1837
		Shannon Castleberry	ES&H	(270) 331-1760	(270) 441-5370	(270) 331-1760

ATTACHMENT C – SITE PRIORITY LISTING

Priority	Sidewalks	Parking Lots	Roads	Other
1	a. DUF ₆ b. C-103 c. C-104 d. C-810 e. C-811 f. C-100 g. C-200 h. C-300 i. C-710 j. C-720	a. DUF ₆ b. C-103 c. C-104 d. C-810 e. C-811 f. C-200 g. C-300 h. C-720 i. C-333 j. C-335 k. C-337 l. C-337-A	a. DUF ₆ b. Hobbs c. C-104 ACF (Access Control Facility) d. Dyke e. Curlee f. Waterworks g. C-752-B Fuel Station h. Montana	a. C-600 East side b. C-600 boiler ad c. C-213
2	a. C-102 trailers b. C-208 c. C-302 d. C-304 e. C-611 f. C-709 g. C-743 h. C-755 i. C-764	a. C-100 loop b. C-208 c. C-302 d. C-304 e. C-331 f. C-310 g. C-315 h. C-333-A i. C-360 j. C-350 k. C-410D/K l. C-409 m. C-720-C Laundry n. C-412 Complex o. C-611 p. C-612 q. C-709 r. C-710 s. C-730 Complex t. C-752-B Fuel Station u. C-755 Complex v. C-764 Complex	a. Patrol roads b. Tenn. Ave. c. Virginia Ave. d. Texas Ave. e. 4 th Street f. 6 th Street g. 8 th Street h. 10 th Street i. 11 th Street j. 12 th Street k. 13 th Street l. 14 th Street m. 16 th Street n. 18 th Street o. 20 th Street p. 21 th Street q. 22 nd Street r. Perimeter to C-612 s. C-755 loop	

ATTACHMENT C – SITE PRIORITY LISTING (CONTINUED)

Priority	Sidewalks	Parking Lots	Roads	Other
3		a. C-743 b. C-743 Complex c. C-531 d. C-532 e. C-533 f. C-535 g. C-536 h. C-537 i. C-631 j. C-755-P k. C-400	a. ST-1003 (C-746-U Access Rd. to Landfill)	a. C-765 b. C-765-A
4		a. C-724 b. C-750	a. McCaw Rd	a. Storm Shelters b. DUF ₆ Cylinder Yards c. Post 48

ATTACHMENT D – DUF₆ PRIORITY LISTING

The following are snow and ice removal priorities for the DUF₆ (depleted uranium hexafluoride) facility:

1. Clear both the west and east drive gates for potential emergency access.
2. Clear sidewalks from primary parking lot to the primary plant access door/turnstile. Clear a walking path from the administration building and main access turnstile to the north side of the conversion building along the green dotted walkway route.
3. Clear a path from north side of C-1300 to the C-1100 T-5 and C-1100 T-9.
4. Clear steps and sidewalk at C-1100 T-5 and C-1100 T-9.
5. Clear a walking path from the green dotted walkway to the C-1320 Potassium Hydroxide building.
6. Clear a walking path from the green dotted walkway to Hydrofluoric Acid Storage (HFS) (sidewalk north of C-1320).
7. Clear a walking path from C-1100 Administration Building to the C-1700 Maintenance Building.
8. Clear steps at the C-1100 trailer complex.
9. Clear Hydrogen Fluoride (HF) Load-out Pad.
10. Clear all roadways and parking inside the fence.
11. Clear access routes in Full Cylinder Staging Pad.
12. Clear access routes in Oxide Cylinder Pad.
13. Clear access routes in Cylinder Aging Yard.

ENCLOSURE 2

Snow and Ice Removal Plan – Red Lined