ICD between PNNL, WCH, and JCI and MSA for 300 Area Utility Systems and Services

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-09RL14728

P.O. Box 650
Richland, Washington 99352

Approved for Public Release;
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Mission Support Alliance

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INTERFACE CONTROL DOCUMENT

HNF-58243 Rev. 2

Between

Pacific Northwest National Laboratory, Washington Closure Hanford, LLC, and
Johnson Controls, Inc.

And

MISSION SUPPORT ALLIANCE, LLC

For

300 AREA UTILITY SYSTEMS AND SERVICES

AUGUST 2015
SIGNATURES:

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Date 8/17/15  
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Date 8/17/15  
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Date 8-11-15  

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J. G. Burrell, Site Manager  
Date 8-4-15  

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1.0 PURPOSE

This Interface Control Document (ICD) addresses interfaces between Mission Support Alliance, LLC (MSA), Washington Closure Hanford, LLC (WCH), Pacific Northwest National Laboratory (PNNL), and Johnson Controls, Inc. (JCI). This ICD defines specific roles, responsibilities, authorities, and accountabilities for the prime contractors and their Sub-Contractors, regarding utilities, services, and general administration of government-owned land and facilities in the 300 Area of the Hanford Site. This agreement is required as noted in the approved Operational Agreement between PNSO and RL, dated July 3, 2013, Article 13.

2.0 SCOPE

This ICD outlines MSA’s services responsibilities for the Hanford 300 Area as defined in MSA’s contract Statement of Work and Section J.3 of the contract. These service responsibilities in the 300 Area include: Potable Water System, Sanitary Sewer and Process Sewer, Snow Removal, Alarm System (Hanford Site Emergency Alerting System), and Telecommunications. All other Utilities and Services, e.g., Steam System, Natural Gas, Raw Water System, Electrical Distribution System, Storm Drains, are the responsibility of the Other Hanford Contractors (OHCs) as detailed. Contractor assignments for delivery of these utilities and services are listed in Attachment 3.

This ICD defines the operational agreement between MSA, PNNL, WCH and JCI for those utilities and services specified which MSA is currently responsible for, along with the other utilities and services provided by other Hanford contractors such as Johnson Controls, Inc. (JCI), and WCH. All MSA utilities and services are as defined in MSA’s contract Statement of Work and Section J.3 of the contract.

The main body of this ICD addresses Roles, Responsibilities, Accountabilities, and Authorities (R2A2) applicable to all PNNL, WCH, MSA and JCI occupied and operated facilities except where facility specific requirements are called out directly.

3.0 DEFINITIONS

Adjacent Land Boundary – Attachments 1 and 2 identify the Adjacent Land Boundary of a building’s outer limits and this above ground surface area is deemed under the operational authority and responsibility of the facility occupant/operator, e.g., MSA, PNNL, WCH and JCI. Attachment 2, 300 Area DOE Contractors Facilities and Grounds map, is consistent with the Operational Agreement between PNSO and RL.

Prime Contractors

a. Washington Closure Hanford, LLC. - WCH
b. Pacific Northwest National Laboratory - PNNL
c. Mission Support Alliance – MSA
d. Johnson Controls, Inc. – JCI

Building - Buildings and/or facilities are synonymous terms.

Configuration Management - The system for applying technical and administrative direction and surveillance to the identification and documentation of functional and physical characteristics of a product, including control of changes and reporting of change implementation status.
4.0 ROLES & RESPONSIBILITIES

4.1 Steam System
JCI is the steam provider. The steam provider operates package boilers, steam distribution system, condensate return system, and related facilities and equipment.

4.1.1 Steam Distribution System
The steam provider is responsible for operation and maintenance of the steam distribution system up to and including the first valve and the associated valve pits. For PNNL facilities, the first valve is typically located inside the facility. Operation and maintenance of these valves will be coordinated with the appropriate point of contact (POC) as identified in Attachment 4.

4.1.2 Condensate Return System
The steam provider is responsible for operation and maintenance of all condensate return headers and collection points beginning with and including the first valve. For PNNL facilities, the first valve is typically located inside the facility. Operation and maintenance of these valves will be coordinated with the appropriate POC as identified in Attachment 4.

4.2 Natural Gas Line
JCI is the natural gas provider. The natural gas provider is responsible for operation and maintenance of the natural gas distribution system in the 300 Area.

PNNL is the owner of the gas meters installed in the natural gas lines at PNNL-managed buildings (318, 325, and 331). Changes or modifications to the meters will be coordinated between JCI and PNNL.

PNNL is the owner of the additional 2” gas line and associated gas articles running from the header located at the boiler annex to the 331 Building. This line tees off the header from the ground and heads to the second floor of the 331 Building for the humidification boiler. The demarcations point between JCI and PNNL is the first valve from the header (PNNL valve).

4.3 Potable Water System

4.3.1 Domestic Water
MSA is the potable domestic water supplier, providing pressurized potable water using main supplies from the City of Richland (COR). MSA will operate, inspect, and maintain the potable water system, water distribution system (includes water mains), and other related facilities in the 300 Area in accordance with safe drinking water standards. For operations, maintenance and repairs that are near PNNL facilities or impact the water supply flow rate and pressure requirements as described in Section 5.1, MSA and PNNL will evaluate and agree on the specifics of the activity.

MSA shall be responsible for all aspects of the water system up to and including the first off-valve or demarcation point outside the customer’s facility or complex of facilities. The customer or facility maintains all responsibility for lines downstream of this agreed-upon point. On side-by-side multiple valve isolations and backflow assemblies, the
facility assumes responsibility from the discharge side of the downstream isolation valve. Specific demarcation point details are depicted on Attachment 5 – 300 Area Water and Sewer Infrastructure Drawings.

PNNL and WCH are responsible for the operation and maintenance of all water distribution systems from the first off-valve nearest the PNNL/WCH controlled facility. In addition PNNL and WCH are responsible for the operation and maintenance of lawn sprinklers and valves (as applicable).

Any demarcation point (e.g. first off-valve) owned by MSA which needs to be isolated for emergency response may be done so by the facility owner.

### 4.3.2 Potable Fire Water

MSA is the fire water supplier, providing pressurized fire protection water using main supplies from the COR. MSA will operate, inspect, and maintain the fire water distribution system (includes domestic pumps, fire pumps, water mains, PIVs, and fire hydrants), and other related facilities in the 300 Area in accordance with the latest edition of NFPA 24, Standard for the Installation of Private Fire Service Mains and their Appurtenances, and NFPA 25, Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems. For outages that will impact the fire protection water, notification will be made per Section 6. For operations, maintenance and repairs that are near PNNL facilities or impact the water supply flow rate and pressure requirements as described in Section 5.1, MSA and PNNL will evaluate and agree on the specifics of the activity.

MSA is responsible for all fire water systems (piping and valves) up to and including the back-flow prevention device or first off-valve nearest the PNNL controlled facilities, including the PIVs for the PNNL 325 Building. Specific demarcation point details are depicted on Attachment 5 – 300 Area Water and Sewer Infrastructure Drawings.

PNNL is responsible for the operation and maintenance of all fire water distribution systems inside of a PNNL facility.

Any demarcation point (e.g. first off-valve, backflow preventer, PIV) owned by MSA which needs to be isolated for emergency response may be done so by the facility owner.

### 4.4 Raw Water System

PNNL is the raw water supplier. PNNL operates and maintains the raw water system consisting of the 312 Columbia River Pumping Station (312 Facility), 3614A Electrical Building, and piping system between the pumping station and 331 Building. PNNL is responsible for operations, maintenance and repairs of the system.

*Note: PNNL is responsible for the 312 Pumping Station, 3614A Electrical Building, and piping system – based on approved Inter-Contractor Transfer Order (ICTO) effective August 8, 2013.*

### 4.5 Cross Connection Control

MSA is the Water Purveyor in the 300 Area. MSA, PNNL, and WCH will adhere to Washington Administrative Code requirements for cross connection control. Additional site requirements above and beyond regulatory requirements that impact ongoing PNNL
and WCH facility operations will be reviewed by MSA, WCH and PNNL prior to implementation.

4.6 Electrical Distribution System

City of Richland (COR) is the electrical service provider to the 300 Area. COR installed new electrical infrastructure in an approved DOE-COR Easement (Contract No. R006-13ES-15192.001) to all the remaining 300 Area buildings and services. COR is responsible for the electrical infrastructure from the COR substation to each building/service connection point (typically the individual transformers and meters). Contractors receiving electrical service from the COR are responsible for the operation, maintenance, and configuration management of their building/service electrical power systems from the connection point to/including the building/service.

Note: A separate agreement has been established to document the COR 300 Area electrical services operations interfaces and responsibilities between the COR and DOE Contractors including the identification of the approved DOE-COR Easement - The City of Richland 300 Area Electrical Services Agreement between The City of Richland, Pacific Northwest National Laboratory, Washington Closure Hanford, LLC, and Mission Support Alliance, LLC, June 2014.

4.6.1 COR Responsibilities:
COR operates, maintains, services, repairs, and provides configuration management of the 300 Area primary electrical distribution system, up to and including the connection point of the building/service.

4.6.2 WCH Responsibilities:
WCH is responsible for the operation, maintenance, and configuration management of their facilities’ electrical power systems from the connection point to/including the building/service except as noted in the Section 5.0 Facility Specific Requirements.

WCH is responsible for system components servicing all 300 Area occupants. Specifically this includes 300 Area general lighting of streets and parking areas except as noted below under Section 4.6.4.

4.6.3 MSA Responsibilities:
MSA is responsible for the operation, maintenance, and configuration management of their facilities’ electrical power systems from the connection point (typically the individual transformers and meters) to/including the building/service except as noted in the Section 5.0 Facility Specific Requirements.

4.6.4 PNNL Responsibilities:
PNNL is responsible for the operation, maintenance, and configuration management of their facilities’ electrical power systems from the connection point (typically the individual transformers and meters) to/including the building/service except as noted in the Section 5.0 Facility Specific Requirements.

a. PNNL is responsible for maintaining the following parking lot lights (circuits feeding these lots are from the building):
   i. 350 Building south parking lot
   ii. 331 Building north, south, and east parking lots
b. COR is responsible for maintaining the street lights attached to COR electrical poles within the DOE-COR easement.

4.7 Storm Drains

Storm drains serving a single facility or facility complex are the responsibility of the facility owner through the disposal point (e.g. 3709A Building drain is the responsibility of MSA, 331 Building drain is the responsibility of PNNL). Storm drains providing service to multiple facilities are the responsibility of WCH. WCH will operate and maintain the multi-facility storm drains within the 300 Area. Operations, maintenance and repairs near PNNL facilities will be coordinated with the appropriate POC as identified in Attachment 4.

4.8 Combined Sanitary/Process Sewer

MSA will operate and maintain the combined sanitary/process sewer system and sanitary sewer lines within the 300 Area up to the interface with the COR sewer system. This includes the network of pipe, tanks, pumps/lift stations, motors, valves and other related mechanical hardware involved in the disposal of approved sanitary and process sewage waste water streams. Specific demarcation point details are depicted on Attachment 5 – 300 Area Water and Sewer Infrastructure Drawing. Operations, maintenance and repairs near PNNL facilities will be coordinated with the appropriate POC as identified in Attachment 4. MSA administers the Municipal Wastewater Pretreatment Permit with the COR.

PNNL is responsible for routine maintenance and upkeep of the sanitary system and sanitary sewer lines within the PNNL facilities. Specific demarcation point details are depicted on Attachment 5 – 300 Area Water and Sewer Infrastructure Drawing. PNNL is responsible for compliance with permit requirements of COR Industrial Wastewater Discharge Permit No. CR-IUO10 for discharges from PNNL managed facilities.

PNNL is responsible for immediately reporting to MSA any upset conditions causing accidental discharges to the combined sanitary/process sewer from PNNL facilities that could cause problems in the sanitary/process sewer, impact the Public Owned Treatment Works, or challenge compliance to the MSA discharge permit conditions. If applicable, PNNL is responsible for providing categorization information of these events for reporting to DOE. Event ownership will be determined on a case-by-case basis depending on the circumstances of the upset condition.

As a part of the on-going contractor interface, PNNL, JCI and WCH will communicate activities affecting discharge to the sanitary/process sewer. PNNL, JCI and WCH will notify MSA of any significant configuration changes to the combined sanitary/process sewer and any significant new discharges of effluent prior to making such changes or conducting new discharges.

4.9 325 Building Retention Process Sewer Tank System (formerly Retention Transfer System and Retention Process Sewer)

PNNL discontinued its effluent discharge to CHPRC’s 310 Retention Transfer System effective March 2014 with the disconnection between the 325 Building and the system.

PNNL installed and operates the 325 Building retention process sewer tank system inside the 325 Building and is responsible for compliance with all discharge requirements at the
point of discharge to the City of Richland Sanitary Sewer.

4.10 Fire Department Support
The Hanford Fire Department (HFD) is operated by MSA. MSA and PNNL have established a MOU document: Fire Protection Services Agreement between Pacific Northwest National Laboratory, operated by Battelle and Hanford Fire Department, operated by the Mission Support Alliance, LLC, Rev 0, July 1, 2010. This document is referenced for specifics related to fire services provided to the PNNL 300 Area Buildings.

MSA fire personnel are to notify the appropriate POC if the fire hydrant to be tested is adjacent to a building (within the 20 foot perimeter). Actions affecting facilities’ fire suppression systems will be coordinated with HFD. PNNL is responsible for removal of combustible debris (trash and tumbleweeds) from areas within the Adjacent Land Boundary for the PNNL facilities.

PNNL is responsible for the generation and approval of design documentation related to the fire suppression systems within the PNNL facilities.

4.11 Road Maintenance & Snow Removal (Parking lots/Sidewalks/Walkways/Roadways)

4.11.1
- MSA will maintain Hanford Site roads and grounds in accordance with applicable laws and regulations.
- MSA provides this service in accordance with Mission Support Alliance Snow Removal Plan HNF-37396.
- All other MSA roads and grounds activities will be covered under the Mission Support Contract (MSC) Service Delivery Document J3-40: Roads and Grounds, Website: -- Service Delivery Document J3-40

4.12 Alarm Systems

4.12.1 MSA is responsible for administration, testing and the maintenance of the Hanford Site Emergency Alerting System.

4.12.2 MSA is responsible for the administration, maintenance, and testing of the fire alarm system RFARs or other technologies used to communicate a signal from the facility fire alarm control panel to the Hanford Fire Department receiving station.

4.12.3 MSA is responsible for the administration, maintenance, and testing of the security alarm systems that communicate with Hanford Patrol.

Roles and responsibilities are detailed in the current Memorandum of Agreement between PNNL Safeguards and Security and National Security Directorate and MSA Safeguards and Security for Protective Force and Security Operations Support.

4.13 Telecommunications
PNNL has the responsibility for the installation, operation and maintenance of all telecommunications systems to the PNNL user stations in the 300 Area.
MSA has contracted the responsibility for contract administration, Design Agent & Authority for additions, deletions, modifications, inventory, telecommunication construction and disposal of all telecommunications systems owned by DOE-RL to a MSA Subcontractor.

4.14 Hazardous and Radiological Conditions

WCH is responsible for remediation of existing hazardous/radiological property (buildings, grounds, waste sites etc.) within the scope of the River Corridor Closure Contract in the 300 Area. PNNL will provide WCH access to PNNL facilities to perform site inspections/surveys as needed for waste site characterization activities. PNNL is responsible for all hazardous/radiological contamination/spills that result from its operations during PNNL occupancy. However, PNNL is not responsible for remediation of any legacy contamination on the surface or below grade in an adjacent land boundary or any portion of the 300 Area.

5.0 FACILITY SPECIFIC REQUIREMENTS

5.1 300 Area

MSA is responsible for maintaining the water equipment and providing to PNNL and WCH, when requested, information and testing documentation pertaining to material condition of the delivery capability of the 300 Area (fire) water supply systems.

Examples are:

• Fire pump tests and inspections
• Piping, hydrant and fire water pump flow rate and performance evaluations
• Programmatic concerns such as changes in PM frequency
• Surveillances, functional testing records, and PMs
• Sanitary water system one-line diagrams, piping and instrument diagrams (P&ID)

Components of interest to PNNL and WCH for the water supply system include Building 385 (water supply pumping station), the pumps (includes fire pumps), piping and piping components in the water supply system between the pumps and the PIVs that isolate buildings from the main water supply system. MSA is responsible for operation, maintenance, and configuration management of the 300 Area water system to provide the necessary fire water supply hydraulic demands.

The minimum PNNL and WCH water supply flow rate and pressure requirements are as follows:
Minimum of two sources of supply shall be capable of providing a minimum of 2-hours of flow at the demand rate. MSA is responsible for maintaining 1.) two separate utility connections or 2.) a connection from a generator and a utility connection.

The fire pump start set points shall be maintained no lower than 85 psig.

MSA will notify the PNNL and WCH as soon as practical and within one hour of any adverse condition or unplanned occurrence with the potable water system (e.g., broken water main, fire pump not starting or not pass pump test/inspection, shut valves that affect PNNL and WCH water supply source, duration, flow rate and pressure requirements). MSA will make notifications per Section 6 when the water requirements listed above cannot be met.

*Note: Emergency response actions and responsibilities, including notifications, are documented in the Hanford Emergency Management Plan, DOE/RL-94-02 and Emergency Plan Implementing Procedures, DOE-0223.*

### 5.2 325 Building, Radiochemical Processing Laboratory (RPL)

The RPL is a Category 2 Nuclear Facility operated under a DOE-approved Safety Basis. The Safety Basis identifies certain structures, systems and components (SSC) that are categorized as safety-significant. The Safety Basis also establishes the operability requirements for these safety-significant SSCs. The operability of some of these safety systems relies on the water services provided to the building by MSA. RPL fire
suppression systems are safety significant and lack of water severely restricts facility operation.

**MSA will notify the PNNL as soon as practical and within one hour of any adverse condition or unplanned occurrence with the potable water system (e.g., broken water main, fire pump not starting or not pass pump test/inspection, shut valves that affect PNNL water supply source, duration, flow rate and pressure requirements).** MSA will make notifications per Section 6 when the water requirements listed above cannot be met.

*Note: Emergency response actions and responsibilities, including notifications, are documented in the Hanford Emergency Management Plan, DOE/RL-94-02 and Emergency Plan Implementing Procedures, DOE-0223.*

### 5.3 324 Building

The 324 Building is a Category 2 Nuclear Facility operated under a DOE-approved Safety Basis. The Safety Basis identifies the building fire suppression system as important to safety (ITS). The operability of this ITS system relies on the water services provided to the building by MSA and a lack of water severely restricts facility operation.

**MSA will notify WCH as soon as practical and within one hour of any adverse condition or unplanned occurrence with the potable water system (e.g., broken water main, fire pump not starting or not pass pump test/inspection, shut valves that affect WCH water supply source, duration, flow rate and pressure requirements).** MSA will make notifications per Section 6 when the water requirements listed above cannot be met.

*Note: Emergency response actions and responsibilities, including notifications, are documented in the Hanford Emergency Management Plan, DOE/RL-94-02 and Emergency Plan Implementing Procedures, DOE-0223.*

### 6.0 NOTIFICATION

Timely notifications for planned utility outage, unplanned utility outage, emergency condition, or other unplanned occurrences are required. Generally, timely notification is as follows:

- MSA will provide 60 days notice to the appropriate PNNL, WCH or JCI POC for a planned outage that will prevent ongoing operations in a PNNL, WCH or JCI facility.
- MSA will provide 30 days notice to the appropriate PNNL, WCH or JCI POC for a planned outage that will not prevent ongoing PNNL, WCH or JCI operations.
- MSA will notify the appropriate PNNL, WCH or JCI POC as soon as practical and within one hour of the event of an unplanned utility outage or other unplanned occurrence.
- MSA will notify the appropriate PNNL, WCH or JCI POC within one hour of the event of an emergency condition affecting a PNNL, WCH or JCI facility.
- MSA will notify the appropriate PNNL, WCH or JCI POC as soon as practical and within one hour when any condition is identified that affects the capability of the water supply system to meet the Building 324 or 325 hydraulic requirements specified by this document, including when:
  - Two sources of water are not available
- A two hour water supply is not available
- Fire pump start set points cannot be maintained at or above 85 psig or when fire pump start tests indicate a fire pump start pressure that is less than 85 psig
- Fire pump is out of service.

- MSA will notify the appropriate PNNL, WCH or JCI POC within one hour of an event where two separate utility connections to the electric fire pump are not available.

- MSA will notify the appropriate PNNL, WCH or JCI POC within one hour of an event where any fire pump is out of service.

- For the list of contacts, see: Attachment 4 PNNL/WCH/JCI/MSA Points of Contact for Utility Facility Issues.

7.0 REFERENCES

None.
Attachment 1
Outdoor Storage, Parking, Grounds Areas Associated with
PNNL Facilities

- Fence sections that form portions of the "security" barrier at RPL
- RPL East Storage Yard
- General outdoor surroundings at 325 (filter building, chiller bldg., diesel generator, pavement around bldg.)
- Fenced yard north of and adjacent to 350 surrounding 350A, 350B, 350C, 350D
- Fence surrounding 361
- Fenced property storage yard west of 331 (on former 331B site)
- Small fenced area northwest of 318 around basement access pit
- Small fenced area northeast of 318 around equipment
- Unfenced storage area between RPL and 308
- 331 areas adjacent to building & parking areas
- 350 parking area
- Sand blasting area east of 350 fenced yard
- 318 parking area
- Unfenced area surrounding the entire 331K Facility
- Unfenced area surrounding the 331P Facility
- Access road from 331 Building to 331K and 331P Facilities
- Above 331K and 331P areas are part of the area south of the 331P and 331K concrete block wall/fence – (note – this area is deemed an exclusion area for PNNL 331P and 331K operations)
- RPL North Storage Pad, (328 Pad)
- 312 Pumping Station, 3614A Electrical Building, and piping system

Above items are within the PNNL Facilities and Grounds adjacent land boundaries as reflected on Attachment 2.
Attachment 2
300 Area DOE Contractors Facilities and Grounds
## Attachment 3

### Contractor Responsibilities for 300 Area Utilities/Services

<table>
<thead>
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<th>Utility/Service</th>
<th>Utility Provider</th>
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## Attachment 4

### PNNL/WCH/JCI/MSA Points of Contact for Utility Issues

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<th>System/Condition</th>
<th>Contact</th>
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<tr>
<td>Unplanned utility outage affecting PNNL facilities and structures</td>
<td>PNNL Control Room (Note – PNNL Control Room will contact appropriate Bldg. Mgrs.)</td>
<td>375-2400</td>
</tr>
<tr>
<td>Unplanned utility outage affecting 324 Building</td>
<td>April Wickersham (324 Operations Facility Manager)</td>
<td>Cell-438-4183</td>
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<tr>
<td>Planned utility outages affecting all PNNL facilities and structures except RPL (325), see below</td>
<td>Sanjay Sanan (PNNL 300 Area Building Manager)</td>
<td>371-6997 Cell – 430-4483</td>
</tr>
<tr>
<td>Planned utility outages affecting RPL (325)</td>
<td>Paul Saueressig (PNNL 325 Building Manager)</td>
<td>375-5352 Cell - 619-3873</td>
</tr>
<tr>
<td>300 Area HFD fire hydrant/other infrastructure testing, outages, and issues affecting 324 Building</td>
<td>April Wickersham (324 Operations Facility Manager)</td>
<td>Cell-438-4183</td>
</tr>
<tr>
<td>Planned utility outages associated with entire 300 Area and not specific PNNL facilities and structures</td>
<td>Sanjay Sanan/Jim Bixler</td>
<td>371-6997/371-7755</td>
</tr>
<tr>
<td>Routine D4 issues affecting PNNL Operations</td>
<td>Paul Crane</td>
<td>371-6177</td>
</tr>
<tr>
<td>Routine D4 issues affecting PNNL utility services and improvements</td>
<td>Jim Bixler</td>
<td>371-7755</td>
</tr>
<tr>
<td>300 Area HFD fire hydrant/other infrastructure testing, outages, and issues affecting PNNL operations, facilities, and structures</td>
<td>Dan Kester (PNNL Fire Protection) (Note – Kester will contact appropriate Bldg. Mgrs.)</td>
<td>371-7383 Cell – 308-9108</td>
</tr>
<tr>
<td>300 Area HFD fire hydrant/other infrastructure testing, outages, and issues affecting 324 Building</td>
<td>April Wickersham (324 Operations Facility Manager)</td>
<td>Cell-438-4183</td>
</tr>
<tr>
<td>WCH 300 Area D4 Project Manager</td>
<td>Dan Elkins Field Point-of-Contact</td>
<td>970-222-9374</td>
</tr>
<tr>
<td>MSA Water Purveyor</td>
<td>Sam Camp</td>
<td>372-0175 Cell -392-3456</td>
</tr>
<tr>
<td>MSA Water and Sewer Utilities Manager</td>
<td>Joe Caudill</td>
<td>376-1631 Cell – 713-0524</td>
</tr>
<tr>
<td>Major utility changes, service allocation changes – PNNL Coordination</td>
<td>Sanjay Sanan/Jim Bixler</td>
<td>371-6997/371-7755</td>
</tr>
<tr>
<td>MSA Road Maintenance &amp; Snow Removal</td>
<td>Rusty Knight</td>
<td>376-6654</td>
</tr>
<tr>
<td>MSA Electrical Utilities</td>
<td>Randy Adkins</td>
<td>372-2774</td>
</tr>
<tr>
<td>Department</td>
<td>Contact Person</td>
<td>Phone Number</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>---------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>JCI Steam Boiler Annex’s &amp; Natural Gas Distribution</td>
<td>Mike Hagerty</td>
<td>373-1343</td>
</tr>
<tr>
<td></td>
<td>Joe Burrell (Site Manager)</td>
<td>372-0243</td>
</tr>
<tr>
<td>WCH Emergency Preparedness</td>
<td>WCH Single Point of Contact (POC)</td>
<td>372-3200</td>
</tr>
<tr>
<td>PNNL Emergency Preparedness</td>
<td>Alisa D. Haller</td>
<td>372-6813</td>
</tr>
<tr>
<td>MSA Emergency Alerting System</td>
<td>Toby Greer</td>
<td>376-4075</td>
</tr>
<tr>
<td>Hanford Site Emergency Operations Center (EOC)</td>
<td>Shift Office</td>
<td>376-2900 or 376-3030</td>
</tr>
</tbody>
</table>
Attachment 5

300 AREA WATER AND SEWER INFRASTRUCTURE DRAWINGS

- H-3-23705-SHT01-R21-F-SIZE.PDF
• H-3-23705-SHT02-R09-300.PDF
• H-3-23705-SHT03-R03-Drawings.pdf
- H-3-60706-SHT18-R26-F SIZE.PDF
• H-3-60706-SHT19-R14-F SIZE.PDF
• H-3-60706-SHT20-R15-F SIZE.PDF