1.0 PURPOSE

This interaction agreement provides the conditions for the Hanford Fire Department (HFD) to provide emergency or disaster support to Energy Northwest's Columbia Generating Station (Columbia) that may otherwise exceed Columbia’s resources or capabilities in accordance Contract No. AT(45-2)-2269 between the Department of Energy and Energy Northwest. Some events that may overburden Columbia resources and would require HFD assistance would include but are not limited to; fire suppression and overhaul, medical treatment and transport, HAZMAT response and control, and radiological containment or exposure protection. This document establishes the expectations and responsibilities for Energy Northwest and the HFD on emergency service support.

1.1 Fire/Explosion Response

The HFD will provide a NFPA 1710 compliant fire department to respond to fire and/or explosion emergencies on Energy Northwest property on the Hanford Reservation, as described in Section 7.0 (except response times).

1.2 Medical Response

The HFD will respond to Columbia with state or nationally certified Emergency Medical Technicians (EMT) or higher credentials with NFPA 1917 compliant medical aid vehicle as needed for medical emergencies on Energy Northwest property at the Hanford Reservation, as described in Section 8.0. The emergency medical service providers will provide transport to local hospitals as needed and within the Laws of Washington state. Additionally, the ambulance may be requested to transport radiologically contaminated patients to Kadlec Medical Center.

1.3 HAZMAT Response

The HFD will respond to Hazardous Materials release emergencies at Columbia as requested with OSHA or equivalent qualified Hazardous Materials response personnel on the Hanford Reservation, as described in Section 9.0.

1.4 Severe Accident/Radiogical Event/Security Threat Response

The HFD will provide the requested response to any event that may involve mitigating radiological hazards, as described in Section 10.0.
The following Sections 2.0 through 6.0 are the general criteria that apply to each of the above response categories.

**2.0 SCOPE OF RESPONSE AREAS**

The scope of response areas to provide emergency support under this agreement includes all properties leased by Energy Northwest from DOE on the Hanford Site. More specifically this includes, but is not limited to:

- Columbia Generating Station (Columbia), including ISFSI Dry Cask Storage Facility and Hydrogen Storage and Supply Facility southeast of Columbia.
- Facility buildings inside the Columbia Protected Area.
- Industrial Area buildings outside the Columbia Protected Area including the Plant Support Facility/Kootenai Complex, Warehouse Complex, General Storage/Maintenence Area, and Building 600.
- Industrial Development Complex (IDC- formerly known as non-operational WNP-1 and WNP-4), which also includes all Industrial Area buildings and the Security Training Facility.
- Make-up Water Pumphouse at Columbia River northeast of the Industrial Development Complex.
- All local roadways and parking lots of the above areas.
- All range areas surrounded the above areas.

Service vehicles and personnel must be able to respond to all buildings in and around Columbia, which includes response within a secured protected area and inside the generating facilities of Columbia. Non-plant Facility buildings are located inside and outside the secured protected area.

See Attachment 1 for Columbia map and primary fire response organization for each building.

**3.0 COLUMBIA PROTECTED AREA ACCESS**

**3.1 Emergency Site Access**

Access to the Columbia Protected Area is controlled by Energy Northwest Security requirements. Every effort shall be made to expedite emergency vehicle access to the site during emergency. Energy Northwest Security Officers will process the HFD emergency vehicles and personnel through security access.
gates in accordance with Energy Northwest procedures and under the direction of the Shift Manager and Security Lieutenant.

The HFD will provide Energy Northwest Security Officer(s) access to responding emergency vehicles. The HFD emergency vehicle(s) entering the site must provide a seat-belted equipped seat for an Energy Northwest Security Officer to accompany them onsite. In the event that seating is inadequate, one member of the HFD shall surrender his/her seat to the boarding security officer and accompany another security officer to the emergency scene or staging area. The HFD should make every effort to provide an available seat prior to entering the site.

Energy Northwest Security Officers shall provide all responding emergency vehicles and personnel with the necessary site access equipment (i.e. dosimeters, radios).

Energy Northwest Security Officers shall permit the movement of HFD vehicles into the Columbia Restricted Area for the purpose of responding to emergencies. Energy Northwest Security will normally provide escort duties. A Security Officer shall stay with each emergency vehicle to ensure compliance with 10 CFR 73.55.

The Columbia Shift Manager/Emergency Director may suspend security measures during an emergency when deemed warranted to protect the public health & safety and no available action or equivalent protection is immediately apparent.

3.2 Non-Emergency Site Access

Access to Columbia Protected Area during drills will be provided in accordance with Energy Northwest procedures (i.e., security requirements shall not be reduced).

3.3 Emergency Exit from Columbia Protected Area

Energy Northwest Security Officers shall expedite HFD vehicle and personnel exiting from Columbia Protected Area in the event that HFD personnel are required to respond to another emergency.

3.4 Fire Service Organization Enroute Response Termination

Responses to Energy Northwest facilities may be terminated if the Main Control Room and/or SCC determines that an emergency condition does not exist or
services are no longer warranted. If the emergency call is terminated, the HFD are to standdown and cancel response.

3.5 Access Through the Security Check Point

To ensure scene safety at the Security Check Point canopy, the HFD will use the far right-hand lanes outside of the covered area for safe routes of travel whenever HFD emergency response vehicles come onsite, regardless of the origin of the visit, unless otherwise directed by a signaling security officer.

4.0 RADIOLOGICAL EXPOSURE

Energy Northwest Health Physics personnel will monitor HFD personnel to limit exposure to radioactive materials. Energy Northwest shall provide dosimetry to HFD responding personnel when responding to emergency conditions within the Columbia Protected Area.

5.0 COMMUNICATIONS

Energy Northwest currently uses a radio transmission system to send alarms to the HFD. The HFD Dispatcher shall conduct a daily test of the radio system.

To provide the ability for direct communications between Energy Northwest and the HFD officer, Energy Northwest must have the ability for sustained radio communication with the responding HFD personnel. Responding HFD vehicles will be provided radios and backup batteries at the Security Checkpoint for direct communication with Energy Northwest. The radios/batteries are to be returned to the Security Checkpoint upon site exit.

6.0 LIABILITY

6.1 Emergency Responses on Energy Northwest Property

The following limitations of liability apply during emergency responses by HFD on Energy Northwest property.

HFD to indemnify and hold harmless Energy Northwest from personal injuries or death occurring to Energy Northwest employees or representatives who are performing work on Energy Northwest property at the time of an emergency. Energy Northwest to indemnify and hold HFD harmless from personal injuries or
death occurring to HFD employees or representatives who are responding to an emergency on Energy Northwest property.

HFD to indemnify and hold harmless Energy Northwest from any loss or damage to HFD vehicles or equipment used in responding to an emergency on Energy Northwest property. EN to indemnify and hold HFD harmless from any loss or damage to Energy Northwest equipment or property so long as HFD personnel in responding to such an emergency situation take reasonable actions.

Energy Northwest will replace or decontaminate any and all HFD vehicles or equipment lost or damaged on Energy Northwest property due to radiological contamination.

These limitations of liability shall not apply to "Gross Negligence" or "Willful Acts of Misconduct" on the part of either Energy Northwest or HFD personnel in responding to an emergency situation.

6.2 Non-Emergency Activities on Energy Northwest Property

The following limitations of liability apply when HFD personnel are participating in non-emergency activities on Energy Northwest property including: training, drills, and site tours.

When participating in non-emergency activities on Energy Northwest property, each party shall be liable for any and all personal injury or death of persons or damage to property arising from the negligent acts or omissions of that party, or its representatives. Each party hereby agrees to indemnify and hold harmless the other party for any and all such liability and such indemnification shall be limited solely to the extent of the negligence of the party or its representatives.

Energy Northwest will replace or decontaminate any and all HFD vehicles or equipment lost or damaged on Energy Northwest property due to radiological contamination.

These limitations of liability shall not apply to "Gross Negligence" or "Willful Acts of Misconduct" on the part of either Energy Northwest or HFD personnel when participating in non-emergency activities on Energy Northwest property.
7.0 FIRE/EXPLOSION REQUIREMENTS

7.1 Minimum Fire Response Times

The HFD will immediately respond upon direct notification of a fire emergency. The expected response is as-soon-as-possible and no longer than 20 minutes. If response time is anticipated to be longer than 20 minutes, then other agencies will be dispatched in accordance with HFD mutual aid agreements.

7.2 Minimum Fire Response Equipment

The initial response equipment will include as a minimum:

- Two(2) NFPA 1901 Pumper Fire Apparatus Type I with minimum of two personnel each.
- Two(2) NFPA 1901 Ambulance Type I or III with minimum of two personnel each.

Significant fires may warrant response by more than the minimum equipment stated above and including equipment for SCBA bottle recharging, water supply tender, aerial, etc. Severe events may require a large percentage of the HFD equipment and manpower.

The HFD should typically maintain a minimum stock of 300 gallons of Aqueous Film Forming Foam (AFFF) concentrate (restocking periods exempted). Energy Northwest will replace any AFFF used during emergency operations.

Additional equipment response may be requested by the Columbia Shift Manager/Emergency Director, Fire Brigade Leader, or as directed by responding HFD officers.

Energy Northwest procedure ABN-FIRE has a list of available HFD equipment that can be requested. When equipment changes and storage locations are changed, the HFD is responsible to inform Energy Northwest Fire Protection of the changes so ABN-FIRE can be updated.

7.3 Command & Control Authority

[During declared emergencies at Columbia-yellow buildings on Attachment 1]

During the lowest classification of event (Unusual Event), the Columbia Shift Manager is the overall Incident Commander. If an Alert or higher emergency has
been declared, the Emergency Director is the overall Incident Commander until such time as the emergency event is terminated or agreement is reached to transition command authority to another entity.

The Columbia Fire Brigade is the primary fire emergency response organization for buildings inside the Columbia Protected Area fence (see Attachment). Columbia Fire Brigade members will always be under the direction of the Columbia Fire Brigade Leader. The Fire Brigade Leader will ensure communication has been established between the HFD Chief Officer and the Columbia Shift Manager (or Emergency Director if an Alert or higher emergency has been declared at the site). The Columbia Fire Brigade Leader may serve as liaison to facilitate that communication if it is not a direct link.

The HFD is the support response organization. HFD personnel will always be under the direction of their HFD Chief Officer. HFD Chief Officer is under the direction of the Columbia Fire Brigade Leader.

The Fire Brigade Leader is responsible for fire fighting operations. The Fire Brigade Leader and the HFD Chief Officer shall coordinate all fire fighting operations with the Columbia Shift Manager/Emergency Director.

The type of fire fighting operations will be determined by the effect of the fire emergency on the operation of the reactor and the safety of the public. See Energy Northwest procedure PPM 1.3.10 for an understanding of Columbia firefighting requirements.

Within areas where Immediately Dangerous to Life or Health (IDLH) atmospheres exists, Fire Brigade members will provide escort duties to the HFD personnel and all resources will wear adequate Personal Protective Equipment (PPE).

The Columbia Shift Manager/Emergency Director, through the Fire Brigade Leader, will declare the fire emergency terminated when conditions causing the emergency have been resolved.

7.4 Fire Fighting Actions for Columbia Buildings outside the Protected Area, Industrial Development Complex, and All other Non-Columbia Buildings

[Blue & Green buildings on Attachment 1]
The HFD will be the primary fire response organization for Columbia buildings outside the Protected Area and all other Non-Columbia buildings within the Section 2.0 scope.

The Columbia Fire Brigade Leader will respond to fires in all structures outside the protected area that directly support Columbia operation (blue buildings on Attachment). The Columbia Fire Brigade Leader will act as a technical advisor (Liaison) to the HFD Incident Commander. The Columbia Fire Brigade Leader will ensure communication has been established between the HFD Chief Officer and the Columbia Shift Manager (or Emergency Director if an Alert or higher emergency has been declared at the site). The Columbia Fire Brigade Leader may serve as liaison to facilitate that communication if it is not a direct link.

Upon arrival, the HFD Chief Officer will assume responsibility for fire fighting operations, unless the Columbia Shift Manager/Emergency Director assumes responsibility and communicates that to the HFD Chief Officer. The HFD personnel will always be under the direction of their Chief Officer.

The HFD Chief Officer will declare the fire emergency terminated when the conditions that caused the emergency have been eliminated. This determination should be with the concurrence of the Columbia Shift Manager/Emergency Director, Fire Brigade Leader, Energy Northwest Fire Protection Engineer(s), and/or IDC Manager, as applicable.

IDC site access for off hours would normally be granted by Columbia Security. In the event that a Patrol Officer is not available the preferred access to the IDC is key entry through double gate next to main gate. Keys have been issued to HFD Pre-Fire Plan holders. If the key is not available to the responding HFD engine the alternative entry method would be cut first link on side gate chain and respond to fire or emergency. An Industrial Development Authority will respond to support HFD on all off-hour fire alarms as well as secure any buildings entered.

7.5 Post Fire Actions

For the scope of buildings where the HFD is the primary fire emergency response organization, the HFD may be requested to provide personnel to monitor a fire scene for the potential of re-ignition after a fire has been extinguished until relieved by Energy Northwest personnel.
7.6 Fire Investigations

The Columbia Fire Marshal or Fire Protection Engineer designee performs fire investigations. The HFD is not responsible for performing fire investigations, but may be requested to assist as needed.

7.7 Fire Alarm Restorations

The HFD will not be responsible for restoration of Radio Fire Alarm Reporter (RFAR) transmitters. The exception is the Harlow RFAR No 5010 and 5020.

7.8 Pre-Fire Plans & Site Layout

Energy Northwest will provide the HFD with pre-fire plans for Columbia Generating Station, the buildings surrounding Columbia Generating Station, and Industrial Development Complex. Energy Northwest will periodically provide the HFD updated drawings of the site layout as hazards change.

7.9 Training and Drills

The HFD shall train to the level of response expected for a nuclear power plant and associated hazards. HFD training should include considerations for large-scale fire events (e.g., transformer, turbine hall lube oil, diesel fuel, hydrogen, etc).

Annually, at least two shifts of the HFD shall participate in a familiarization tour of Columbia. The annual familiarization tour should also cover the layout of other Energy Northwest facilities. The annual familiarization tour should also cover the responsibilities presented in this Interaction Agreement. Energy Northwest shall coordinate the familiarization tours.

Both HFD and Columbia will practice command and control utilizing the Incident Command System (ICS) and be able to expand as needed following the National Incident Management System (NIMS). Being familiar and operationally compliant with both systems is imperative to the successful outcome of HFD and Columbia during any emergency. In order for both agencies to be well versed in this level of operation will include developing, planning, executing, evaluation, and exercising of an Emergency Operations Plan (EOP). With the assistance of the HFD, Columbia will develop a manageable and executable EOP by November 2012.
Energy Northwest and the HFD shall conduct cooperative fire drill exercises at least annually within Columbia, based on the developed EOP. Columbia shall coordinate the scheduling of the drills with the HFD.

Functional exercises or classroom based training may also be conducted annually between HFD command staff and Fire Brigade Leaders (at a minimum). Safe work practices shall be adhered to at all times. Columbia shall coordinate the scheduling of the training with the HFD.

The HFD will participate with Columbia in federally mandated Hostile Action Based drills and exercises on the frequency required by regulation. The HFD may also be requested to participate in other periodic Emergency Response Organization (ERO) training drills and tabletop exercises designed to exercise the functions described in this contract. Columbia shall coordinate the scheduling of the drills with the HFD.

The HFD dispatcher should be trained on effective communication with the Southeast Communications Center (SE-COMM) for assistance of local fire departments, if needed through HFD’s Mutual Aid Agreement.

7.10 Support During Impairment of Multiple Fire Pumps

There is the remote possibility that multiple Columbia fire pumps could become inoperative simultaneously. In this case, a backup water supply is required as a compensatory measure. The HFD would provide a manned pumper fire apparatus with 500-gpm minimum capacity. The duration of this support would be negotiated based on the circumstances.

7.11 Fire Interaction Agreements

The HFD will maintain an interaction agreement with local fire departments to further ensure an adequate response to large fire events. See section 10.0 for additional interaction agreement considerations.

8.0 EMERGENCY MEDICAL SERVICE (EMS)

8.1 Minimum Medical Equipment Response & Level of Care

The medical response equipment will include as a minimum:
8.2 Communication/Contact Requirements

The HFD must have the availability to be dispatched and respond anytime during a 24-hour period.

8.3 Desired Response Time to CGS and Site 1 Complex

The expected response is As Soon As Possible and no longer than 20 minutes. If response time is anticipated to be longer than 20 minutes then other agencies will be dispatched in accordance with HFD mutual aid agreements.

HFD agrees to support medical drills involving transport of a simulated patient to an offsite facility which are periodically scheduled in order to meet federal NRC requirements.

8.4 Local Agreements/Other

The service must fall under the direction and guidance of the local EMS district.

The HFD must have inter-local agreements in place for any possible response to multiple trauma victims and mass casualty events at the Columbia site.

The HFD must have appropriate agreements to transport individuals to the nearest medical center (Kadlec Medical Center), including multiple trauma victims as from a mass casualty event including multiple potentially radiologically contaminated victims.

The HFD must have back-up capability if their primary unit including personnel is out of service. These arrangements are to be covered by the provider of this service.
8.5 Special Capability

The HFD must be able to extricate individuals from motor vehicle accidents and from other heavy industrial equipment. Examples of equipment include backhoes, bucket trucks, mobile cranes etc.

The HFD must have the capability, training, and credentials to provide special industrial work area response including HAZMAT, confined space, high angle, water rescue, and motor vehicle accidents.

The HFD must be able to transport and care for radiologically contaminated injured or ill patients.

8.6 Other On-Site Commitments - Non-Emergency

The HFD must be able to participate in an on-site medical drill at Columbia once per year.

Periodic tours for orientation and familiarization to the complexes may be required.

9.0 HAZARDOUS SUBSTANCE (HAZMAT) RELEASE – EMERGENCY RESPONSE REQUIREMENTS

In the event that an uncontrolled release of hazardous substance, including biological or disease-causing agents, occurs on Energy Northwest property, Energy Northwest may request the HFD to respond to the emergency.

In response to an uncontrolled release of a hazardous substance, Energy Northwest personnel who perform escort duties for security purposes shall not be permitted to enter the "hazardous substance contamination reduction zone" or the "hazardous substance contamination zone" unless they are qualified to the operations level. Visual monitoring of HFD personnel by escorts shall be used to the extent possible. HFD personnel shall enter and exit the "hazardous substance contamination reduction zone" and "hazardous substance contamination zone" through the pre-designated entry and exit areas unless "life threatening" conditions warrant an expeditious entry or exit.

Energy Northwest will provide the HFD with support within the limits of training and equipment. Technical data will be supplied to the HFD as quickly as possible. Energy Northwest maintains Material Safety Data Sheets (MSDS) for material used on Energy Northwest property. This information will be made available to HFD personnel in the
event of an emergency. Energy Northwest will provide a person with chemical and technical expertise when requested by the HFD Chief Officer.

Energy Northwest and HFD personnel identifying themselves as trained to either "First Responder Operations" Level or "Hazardous Materials Technician" Level shall be allowed to perform the duties required during emergency response operations without proof or documentation of the training or qualification having been completed. Documentation of training may be requested from either party prior to, or following an incident.

The Incident Commander for HFD HAZMAT responses at Columbia and the surrounding buildings shall be the HFD Chief Officer, with technical assistance from the Columbia Fire Brigade Leader and coordination with the Shift Manager (or Emergency Director if an Alert or higher emergency has been declared at the site). The HFD Chief Officer will maintain command over HFD and Energy Northwest personnel and have the responsibility for controlling emergency response operations at the spill site.

For other Energy Northwest non-Columbia facilities, the Incident Commander shall be the HFD Chief Officer, with technical assistance from skilled support personnel designated by Energy Northwest. The HFD Chief Officer will maintain a unified command over HFD and Energy Northwest personnel and have the responsibility for controlling emergency response operations at the spill site.

Once the hazardous substance spill has been stopped, contained, and the spill site is stabilized with no threat to personnel, Columbia facilities or the environment, spill cleanup operations shall be the responsibility of Energy Northwest.

10.0 SEVERE ACCIDENT/RADIOGICAL EVENT/SECURITY THREAT RESPONSE REQUIREMENTS

The HFD will provide the requested response to any event that may involve mitigating radiological hazards where support is needed beyond Energy Northwest's capabilities. (e.g., route fire hose from ground level to the spent fuel pool, backup cooling water mitigation strategies on the reactor, mass casualties).

An Interaction Agreement will be maintained with local response organizations that can assist Columbia in the event of more severe accidents (e.g., aircraft accident, terrorist acts, volcanic ash, earthquake, tornado, etc).

If the Incident Commander and/or HFD Chief Officer determines additional aid is needed, he will request through HFD dispatch for mutual aid resources. The HFD Dispatch will contact the Southeast Communications Center (SE-COMM) and work to
coordinate their response. SE-COMM may choose to contact the Tri-County Mutual Aid Area (TCMAA) members (Franklin Co., Walla Walla Co and so on depending on type and location of resources requested). If the fire-fighting resources that are part of the TCMAA are not deemed sufficient, the HFD will request additional regional fire-fighting resources to backfill HFD stations. If local and regional resources are not adequate, then state and national resources should be requested.

Response times for severe accidents/radiological response depends on the type of incident and if a radiological release is in progress. To ensure an adequately prompt response, airlifting of personnel and supplies should be an option.

When notified of a security threat at Energy Northwest facilities, the Shift Manager (or designee) will notify the HFD and the HFD will place all fire stations on standby. The Energy Northwest Emergency Director may request that the HFD personnel respond to a predetermined staging area for immediate support.

Key Notes:

The use of terminology- “Hanford Fire Department or HFD” also includes all Hanford Fire Department mutual aid agreement agencies. All other mutual aid agreement agencies shall be held to the same expectations and requirements identified in this agreement as the HFD.
ATTACHMENT 1

Columbia Generating Station
SITE MAP

Primary Fire Response Organization

KEY:
- Hanford Fire Response Only
- EN Fire Brigade Primary Resp.
- Fire Brigade Leader and H.F.D. Primary Response

Richard A. Olson Jan 2005
1.0 PURPOSE
This interaction agreement provides the conditions for the Department of Energy to provide repair and maintenance of roads including snow removal services within the Hanford Reservation used by Energy Northwest and allocated a share of these costs to support Energy Northwest’s Columbia Generating Station (Columbia) that may otherwise exceed Columbia's resources or capabilities in accordance Contract No. AT(45-2)-2269 between the Department of Energy and Energy Northwest.

1.1 Primary Roads

Primary Roads shall mean the paved roads within the Hanford Reservation. Energy Northwest (EN) utilized roads shall mean the following Primary Road sections:

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1.0 PURPOSE

This interaction agreement provides the conditions for the Department of Energy to provide traffic enforcement services through Benton County Sheriff’s Office to Energy Northwest’s Columbia Generating Station (Columbia) that may otherwise exceed Columbia’s resources or capabilities in accordance Contract No. AT(45-2)-2269 between the Department of Energy and Energy Northwest. Traffic enforcement services are outside the capabilities of Energy Northwest. This agreement provides the conditions for the Benton County Sheriff’s Office to provide traffic enforcement services support through their agreement with the Department of Energy.

2.0 SCOPE OF SERVICES

2.1 Traffic enforcement services are provided by the Benton County Sheriff’s Office for the Hanford Site. Traffic enforcement services for the Hanford site are defined as:

- Traffic patrols during the peak hours of traffic on the Hanford Site.

- Random patrols outside of the peak hours of traffic. During non-business hours (week-ends and holidays), only an emergency response to traffic accidents or mutual aid requests for assistance are required.