

# NEPA COMPLIANCE SURVEY

# 262

Project Information			
<b>Project Title:</b>	Geothermal Technologies Program	<b>Date:</b>	12-11-09
<b>DOE Code:</b>	6730.020.61041	<b>Contractor Code:</b>	
<b>Project Lead:</b>	Lyle Johnson		
<b>Project Overview</b> 1. What are the environmental impacts? 2. What is the legal location? 3. What is the duration of the project? 4. What major equipment will be used if any (work over rig, drilling rig, etc.)?		This NEPA is for the laying of a 2,975 foot, 8" welded plastic water line from Little Teapot Creek near in the intersection with Teapot Creek to the North Waterflood Facility (NWF) building. The entire project area is within Section 21 T39N R78W (map attached) and will not impact any wet land areas but will cross one intermittent stream. The stream is presently dry. The project will include the clearing of vegetation from a 12 foot wide construction corridor along the route, digging a 5 foot deep trench, welding and placing the plastic line and covering and compacting the trench. This task should take approximately one month and the line will remain in place for an undetermined period to supply cooling water to the NWF for geothermal testing. Equipment required for this project will be a blade to clear the right-of-way, a backhoe to dig and fill the trench, a plastic welding machine (to be rented) and possible a boom truck to lay the line.	

**The table below is to be completed by the Project Lead and reviewed by the Environmental Specialist and the DOE NEPA Compliance Officer. NOTE: If Change of Scope occurs, Project Lead must submit a new NEPA Compliance Survey and contact the Technical Assurance Department.**

	Impacts Anticipated?			If YES, then complete below
	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
<b>Water Quality</b>				
<b>Does the proposed project present potential for impacts on water resources or water quality?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	An intermittent stream will be crossed but this time of the year the streambed is dry and will be returned to its original condition.
<b>Does the project affect surface water quantity or quality under both normal operations and accident conditions?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Does the proposed project affect groundwater quantity or quality under both normal operations and accident conditions?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Will the project area include "Waters of the State?"</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Will the project area require a Corps of Engineers permit?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Before construction into the streams, ACOE must be notified

## NEPA COMPLIANCE SURVEY

	Impacts Anticipated?			If YES, then complete below.
	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
<b>Geology &amp; Soils</b>				
Does the proposed project present potential for impacts related to geology or soils?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Requires removal of soil from a trench and replacing of removed soil
Does the proposed project alter, excavate or otherwise disturb land area consistent with other land use and habitat area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Some plants are removed during construction, reseeded will have to be done.
Is the proposed project likely to impact local seismicity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If the project involved disturbance of surface soils, are erosion and storm water control measures addressed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Total construction (disturbed) area is estimated at 0.82 acres
<b>Air Quality</b>				
Does the proposed action present potential for impacts on ambient air quality under both normal and accident conditions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are potential emissions (gases and/or airborne particulates including dust) outside of the normal scope for oil field operations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the project present risk to human health and the environment from exposure to radiation and hazardous chemicals in emissions?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project subject to New Source Performance Standards?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project subject to National Emissions Standards for Hazardous Air Pollutants?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the project subject to emissions limitations in an Air Quality Control Region?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

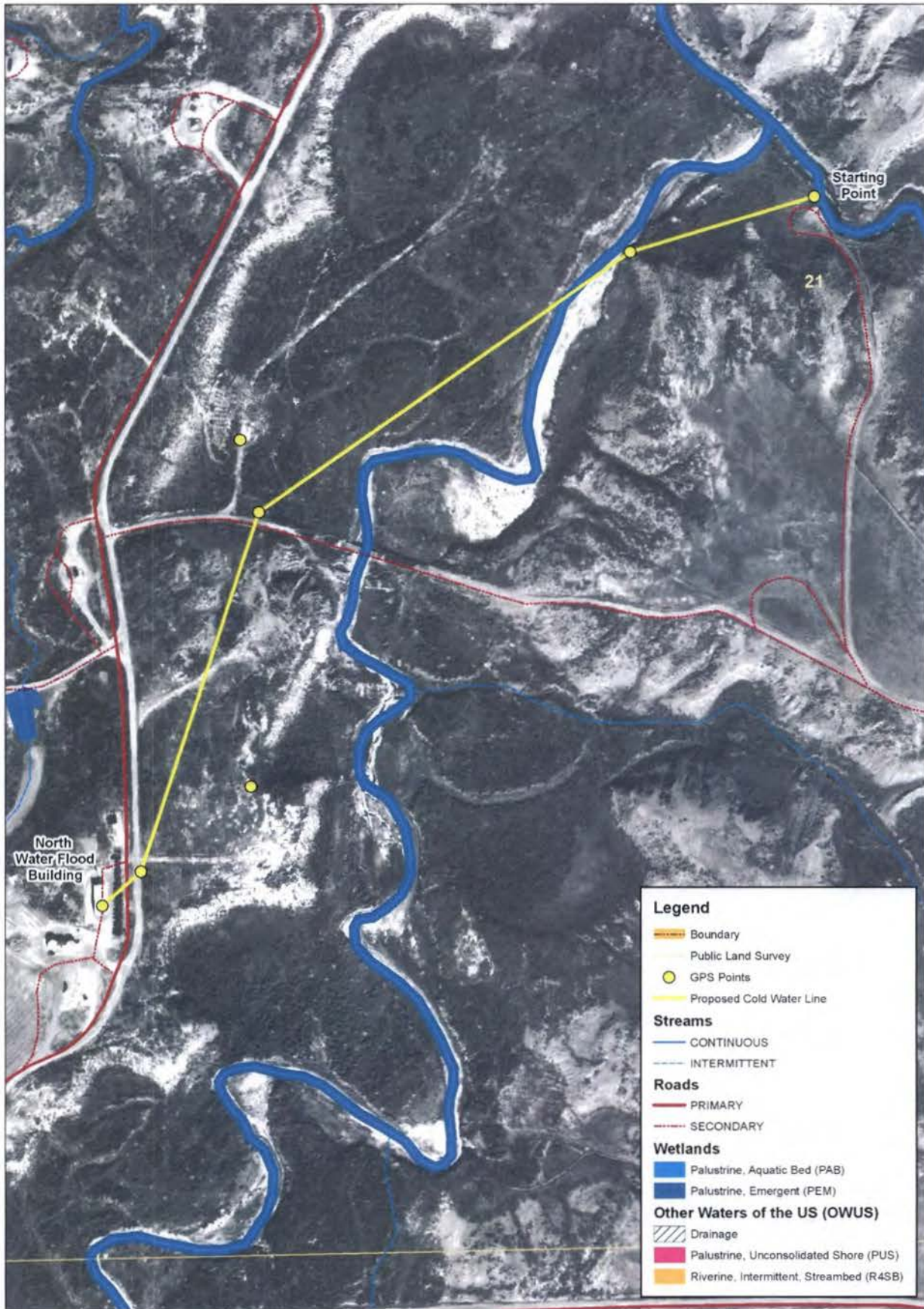
## NEPA COMPLIANCE SURVEY

	Impacts Anticipated?			If YES, then complete below.
<b>Wildlife and Habitat</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Does the proposed action present potential for impacts on wildlife or habitat?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Due to the terrain and location, the area for construction was bladed for safety of employees and the archeologist. The area must be reseeded after construction is completed
Does the project impact state or federally listed threatened and endangered species?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Human Health Effects</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Does the proposed project present potential for effects on human health? e.g.: Hanta virus, radiological exposure, or chemical exposure (must provide MSDS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Transportation</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Does the proposed project involve transportation of radiological sources or hazardous materials (including explosives)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>Waste Management and Waste Minimization</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>	<b>If the anticipated impact might be unacceptable, recommend mitigation measures:</b>
Are pollution prevention and waste minimization practices needed in the proposed project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Best Management Practices must be followed to prevent erosion. Construction activities are restricted to adjacent trenching areas.
Does project plan establish procedures in compliance with local, state and/or federal laws and guidelines affecting the generation, transportation, treatment, storage or disposal of hazardous and other wastes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A JSA will be performed prior to construction each day. The archeologist must review the area prior to startup daily. All hazardous materials used on the job site must be secured to prevent spills.

# NEPA COMPLIANCE SURVEY

	Impacts Anticipated?			If YES, then complete below.	
Cultural Impact	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Is there potential for impact on cultural (historic) resources?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The archeologist will review the trenching activities on a daily basis. Prior to the beginning of work on the following day, the archeologist will authorize the start of the next phase of the trenching work. The archeologist will advise the NCO representative of the construction inspection, subsurface testing and findings.	
Community Impact	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Will the proposed project introduce significantly adverse auditory, visual, or other impact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Will the proposed project adversely affect the community's use of public land/resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Will the proposed project adversely affect the community's access to private land?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
NOTE: Topography Map and Wetlands Map are required to be attached. Attach applicable SOPs for Risk Assessment Level 2 & 3 and specific test procedures.					
Are permits required? If YES, list below:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Trenching, ACOE					
Section below to be reviewed by Environmental Specialist and DOE NCO.					
Adequate Mitigation Measures Provided?			Adequate Mitigation Measures Provided?		
	Yes	No		Yes	No
Water Quality Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transportation Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air Quality Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Waste Management Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*Wildlife and Habitat Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cultural Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Geology and Soils Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Community Impact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Human Health Impacts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<b>Categorical Exclusion</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Approvals</b>					
Comments and Conditions:	<input checked="" type="checkbox"/> B5.2 Modifications to oil, gas, and geothermal facility pump and piping configurations, manifolds, metering systems, and other instrumentation that would not change design process flow rates or affect permitted air emissions. <input checked="" type="checkbox"/> B3.7 Siting, construction and operation of a new infill exploratory and experimental (test) oil, gas, and geothermal well, which are to be drilled in geological formations that have existing operating wells.				
Contractor ESS&H	S. Shire			Date 12/14/09	
Comments and Conditions:	Based on my review of information conveyed to me and in my possession (or attached) concerning the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1A), I have determined that the proposed action fits within the specified class of actions, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.				
DOE NEPA Compliance Officer	CXS B 1.3K, B5.2, & B5.1 			Date 12/14/09	

# Cooling Line NWF



0 255 510 1,020 Feet

WY State Plane / East Central Zone / NAD 27 / Scale = 1:3,000

11/17/2008

**RMOTC**

Heat Generator 8067-565  
Project Manager: L Johnson  
GIS Technician: J Buelt