

PMC-EF2a

(20102)

**U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION**



RECIPIENT: Il Dept of Commerce & Economic Opportunity

STATE: IL

PROJECT TITLE : Donnewald Distributing, MBJ, INC.

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000052	DE-EE0000119	GFO-10-460	EE119

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

B5.1 Actions to conserve energy, demonstrate potential energy conservation, and promote energy-efficiency that do not increase the indoor concentrations of potentially harmful substances. These actions may involve financial and technical assistance to individuals (such as builders, owners, consultants, designers), organizations (such as utilities), and state and local governments. Covered actions include, but are not limited to: programmed lowering of thermostat settings, placement of timers on hot water heaters, installation of solar hot water systems, installation of efficient lighting, improvements in generator efficiency and appliance efficiency ratings, development of energy-efficient manufacturing or industrial practices, and small-scale conservation and renewable energy research and development and pilot projects. The actions could involve building renovations or new structures in commercial, residential, agricultural, or industrial sectors. These actions do not include rulemakings, standard-settings, or proposed DOE legislation.

Rational for determination:

The State of Illinois is providing \$950,000 in Recovery Act funds to Donnewald Distributing, MBJ, INC., 2100 Samuel W. Andrews Drive, Greenville, Il to cover costs associated with the installation of a closed-loop ground source heat pump (GSHP) system at a new 150,000 square foot, climate controlled distribution center for Anheuser Busch. The geothermal system will be used to provide heating and cooling for the entire distribution center. The 195-ton system is connected to three (3) geothermal reversing chillers totaling 133 tons, two (2) medium temperature refrigeration units totaling 15 tons and nine (9) office geothermal heat pump units totaling 47 tons.

The project site is located in an established industrial park. The construction of the distribution center and installation of the geothermal system has occurred on previously disturbed land. The ground source loop is located in a man-made five acre pond which is adjacent to the site. The pond is being used as the heat sink for the geothermal coils. The loops in the lake are 20 feet apart to allow adequate heat exchange. The system employs 6" supply and return high density polyethylene (HDPE) piping that is heat fused at the joints to minimize the risk of leaks. The piping runs underground from a pipe vault located near the pond and driveway to the building mezzanine. The recipient verified that all IGSHPA guidelines for installation of the closed loop system were followed and that a certified driller was used. The project included the installation of a bore hole drilled 112 feet deep to provide fill water for the pond in the event of severe dry conditions. The bore hole is located on the north shore of the pond, directly south of the drive through. A permit for the well was not required.

The recipient verified that a waste management plan was in place during construction. An erosion control plan was in place for the entire construction site to ensure that best management practices were implemented during construction for protective measures. A GIS study conducted on the proposed project location using NEPAAssist indicated no wetlands on the project site location. There are no floodplains located on the site in question.

DOE is aware that the installation of the geothermal system is complete. A post construction site visit was conducted on June 15th, 2010 by personnel from the DOE Golden Field Office to inspect the project and assess potential environmental impacts from the construction. Through a detailed inspection of the geothermal system site, it is concluded that there were no adverse impacts to the site or the surrounding area. The geothermal system was installed as described by the information above.

After a thorough review of the submitted information and a post-construction site visit, it has been determined that the project has not had a significant impact to human health and/or environment. Based on the information obtained through the site visit, the work conducted is consistent with activities identified in Categorical Exclusion B5.1.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

Note to Specialist :

According to the project officer, funding for this project is \$950,000. As the work is completed and the State is paying in arrears, payment based on invoice may be warranted.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____
NEPA Compliance Officer

Date: 6/24/10

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____
Field Office Manager

Date: _____

The State of Nevada is providing \$950,000 in Federal NEPA Compliance Officer Signature: _____
NEPA Compliance Officer

The project site is located in an established industrial park. The construction of the distribution center and installation of the government system has occurred on previously disturbed land. The ground source loop is located in a man-made line some part which is adjacent to the site. The pond is being used as the heat sink for the government coils. The loop in the pond is 20 feet apart to allow adequate heat exchange. The system employs B supply and return high density polyethylene (HDPE) piping that is heat traced at the joints to minimize the risk of leaks. The piping runs underground from a pipe vault located near the pond and directly to the building mezzanine. The mezzanine was first a KISHFA guidelines for installation of the closed loop system were followed and that a certified diver was used. The project included the installation of a bore hole drilled 12 feet deep to provide fill water for the pond in the event of severe dry conditions. The bore hole is located on the north shore of the pond, directly south of the drive through permit for the well was not required.

The recipient verified that a water management plan was in place during construction. An erosion control plan was in place for the entire construction site to ensure that best management practices were implemented during construction for protective measures. A GIS study conducted on the proposed project location using NEPA/EA indicated no wetlands on the project site location. There are no floodplains located on the site in question.

DOE is aware that the installation of the government system is complete. A post construction site visit was conducted on June 15th, 2010 by personnel from the DOE Denver Field Office to inspect the project and assess potential environmental impacts from the construction. Through a detailed inspection of the government system site, it is concluded that there were no adverse impacts to the site or the surrounding area. The government system was installed as described by the information above.

After a thorough review of the submitted information and a post-construction site visit, it has been determined that the project has not had a significant impact on human health or the environment. Based on the information obtained through the site visit, the work conducted is consistent with activities identified in Categorical Exclusion B2.1.