# U.S. Department of Energy
## Categorical Exclusion Determination Form

Submit by E-mail

Proposed Action Title: Lightning Mapping Array Project

Program or Field Office: NNSA Production Office (Pantex)

Location(s) (City/County/State): Amarillo, Carson, Texas

Proposed Action Description:
The Lightning Mapping Array (LMA) project would install eight sensors, on tripods, to detect the electrical activity in the area surrounding the Pantex Plant. The advantage of the LMA system, besides providing redundancy with our existing Lightning Location and Protection System (LLPS), is that it could predict cloud-to-ground lightning strikes, based on electrical activity of the cloud, before they occur. Permanent installation on concrete pads may be a later option.

Categorical Exclusion(s) Applied:

A8 - Awards of certain contracts

A9 - Information gathering, analysis, and dissemination

B3.1 - Site characterization and environmental monitoring

B1.24 - Property transfers

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of 10 CFR Part 1021.

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

☑ The proposal fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D.

To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

☑ There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal.

☑ The proposal has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer: James Barrows Digitally signed by James Barrows DN: c=us, o=U.S. Government, ou=Department of Energy, ou=Pantex Plant, ou=NNSA Site Office, serialNumber=jbarrows, cn=James Barrows Date: 2013.12.27 13:45:24 -06'00' Date Determined: 12/27/2013