

U.S. DEPARTMENT OF
ENERGY

Office of
ENERGY EFFICIENCY &
RENEWABLE ENERGY

LOUISIANA'S APPROACH TO NEPA

Louisiana Department of Natural Resources

State Energy Office

Buddy Justice... buddy.justice@la.gov

Louis McArthur... louis.mcarthur@la.gov

Office #...225-342-1399





NEPA Determination Case Studies

- Falls within the Bounded Categories
- Falls outside of the Bounded Categories



NEPA Determination Case Studies

- List of the Bounded Categories

- 1) Administrative activities associated with management of the designated State Energy Office and management of programs and strategies to encourage energy efficiency and renewable energy, including energy audits
- 2) Development and implementation of programs and strategies to encourage energy efficiency and renewable energy.
- 3) Funding energy efficiency upgrades, provided the projects apply the restrictions of each state's programmatic agreement with SHPO, and are limited to
 - a) installation of insulation;
 - b) installation of energy efficient lighting;
 - c) HVAC upgrades (to existing systems);
 - d) weather sealing;
 - e) purchase and installation of ENERGY STAR appliances (such as but not limited to; furnaces and air conditioners)
 - f) replacement of windows and doors; and
 - g) high efficiency shower/faucet upgrade
- 4) Installation of onsite renewable energy technology, such as solar powered appliances and biomass heating systems.
- 5) Development, implementation, and installation of onsite renewable energy technologies that generates electricity from renewable resources, provided that projects are limited to:
 - a) Solar Electricity/Photovoltaic - appropriately sized system or unit on existing rooftops and parking shade structures; or a 60kW system or smaller unit installed on the ground within the boundaries of an existing facility.
 - b) Wind Turbine - 20kW or smaller.
 - c) Solar Thermal (including solar thermal hot water) - Systems must be 20kW or smaller.
 - d) Ground Source Heat Pump - 5.5 tons of capacity or smaller, horizontal/vertical, ground, closed-loop system.
 - e) Combined heat and Power System - boilers sized appropriately for the buildings in which they are located.
 - f) Biomass Thermal - 3MMbtus per hour or smaller system with appropriate Best Available Controls Technology (BACT) installed and operated.



NEPA Determination Case Studies

- List of the Bounded Categories *(cont'd)*

- 6) Development, implementation, and installation of energy efficient or renewable energy-powered emergency systems (lighting, cooling, heat, shelter) installed in existing buildings and facilities.
- 7) Installation of alternative fueling pumps and systems for fuels such as compressed natural gas, hydrogen, ethanol, and other commercially available biofuels, (but not storage tanks) installed on the site of a current or former fueling station, or within a previously disturbed, or developed area within the boundaries of a facility managed by the owners of a vehicle fleet.
- 8) Purchase of alternative fuel vehicles.
- 9) Installation of electric vehicle charging stations installed on existing facilities.
- 10) Development and implementation of training programs.
- 11) Development and implementation of building codes and inspection services, and associated training and enforcement of such codes in order to support code. (A11)
- 12) Implementing financial incentive programs such as rebates and energy savings performance contracts for existing facilities or for energy efficient equipment, provided that the incentives are not so large that they would be deemed to be grants that create projects that would not otherwise exist. (Dependent on technology)



NEPA Determination Case Studies

- Falls outside of the Bounded Categories

1) Everything else



NEPA Determination Case Studies

- Falls within the Bounded Categories
- Falls outside of the Bounded Categories

Whether in a Bounded or Non-Bounded Category,
we treat all projects systematically the same

LOUISIANA'S APPROACH TO NEPA

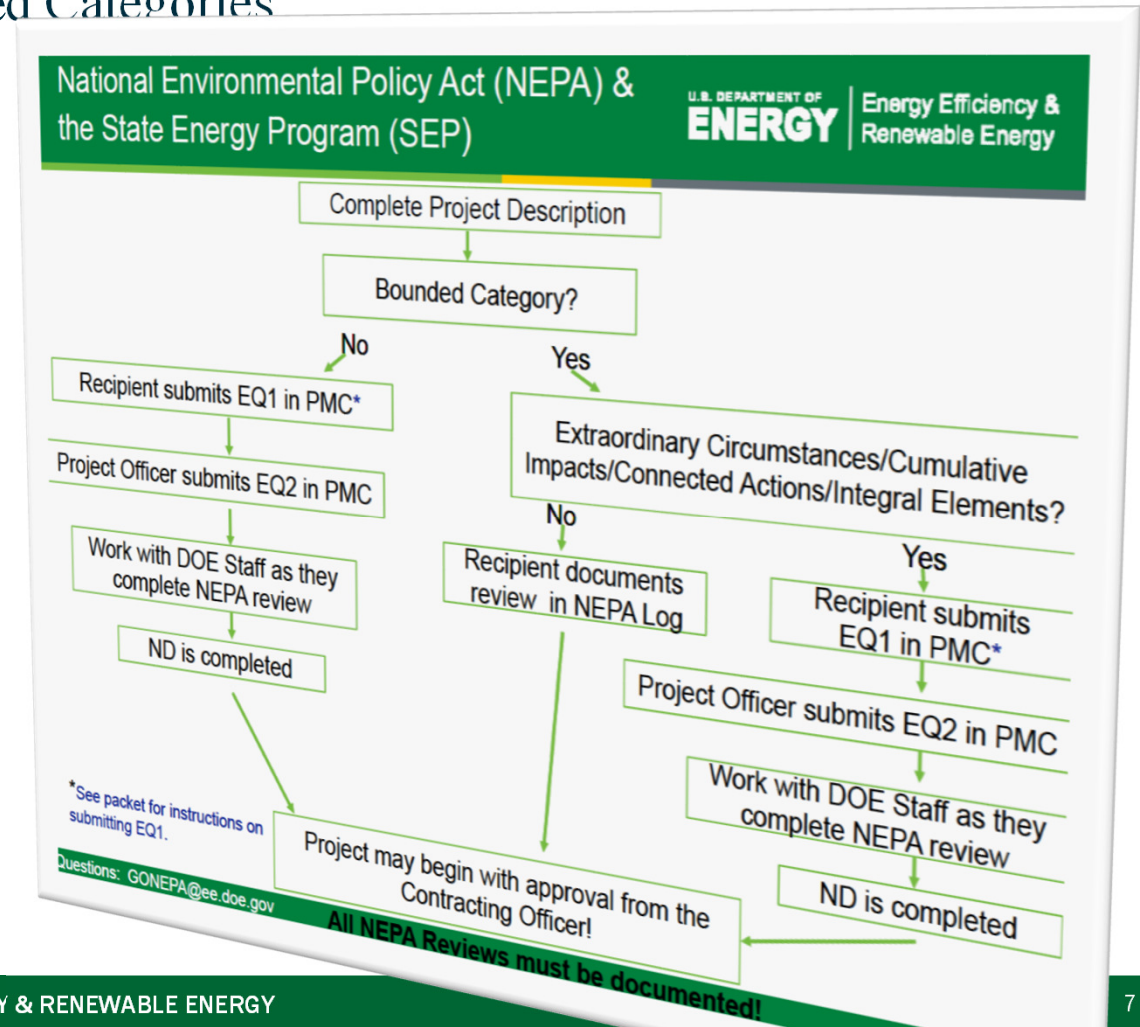


NEPA Determination Case Studies

- Falls within the Bounded Categories
- Falls outside of the Bounded Categories

NEPA Process Flowchart

Affectionately known as:
**“Diana Heyder’s
NEPA 101 Flow Chart”**





NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

The proposed project included lighting efficiency upgrades to both exterior & interior existing lighting fixtures and bulbs



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

The proposed project included lighting efficiency upgrades to both exterior & interior existing lighting fixtures and bulbs

- 3) Funding energy efficiency upgrades, provided the projects apply the restrictions of each state's programmatic agreement with SHPO, and are limited to:
- a) installation of insulation;
 - b) installation of energy efficient lighting;
 - c) HVAC upgrades (to existing systems);
 - d) weather sealing;
 - e) purchase and installation of ENERGY STAR appliances (such as but not limited to; furnaces and air conditioners)
 - f) replacement of windows and doors; and
 - g) high efficiency shower/faucet upgrade



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

The proposed project included lighting efficiency upgrades to both exterior & interior existing lighting fixtures and bulbs

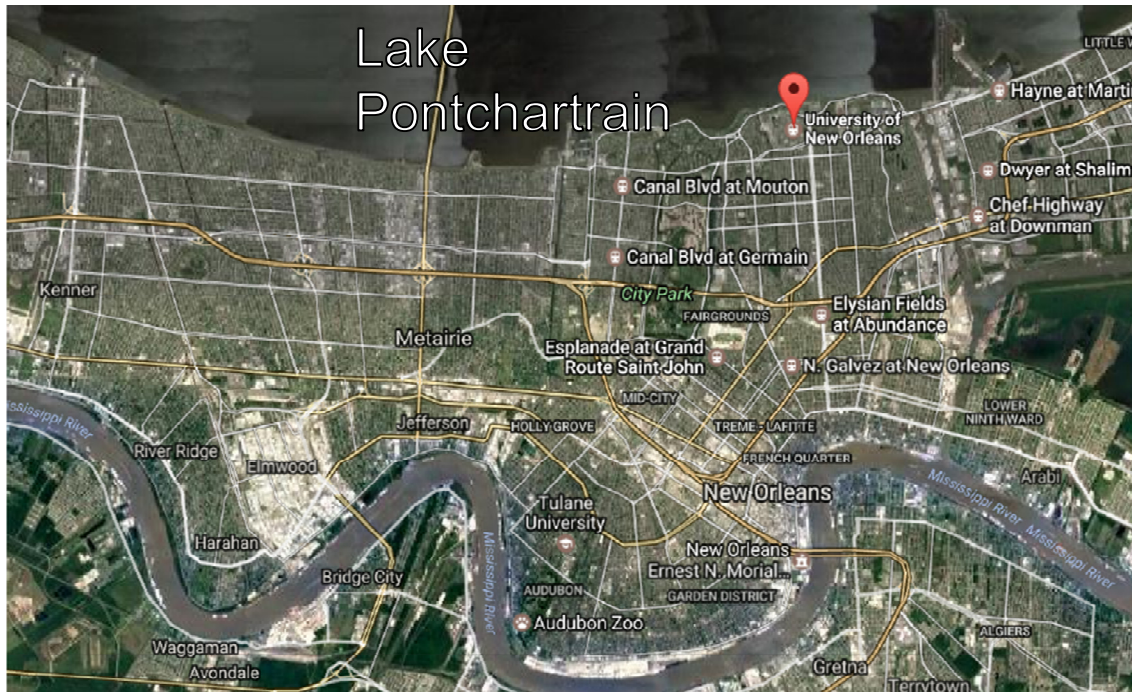
This work falls within the Bounded Category #3
a) installation of energy efficient lighting;



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

Provide a Google Earth print out of the project location that shows its relationship to known landmarks



NEPA SURVEY OF
PROPOSED PROJECT



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”



Take pics of the existing types of exterior lighting fixtures to be replaced



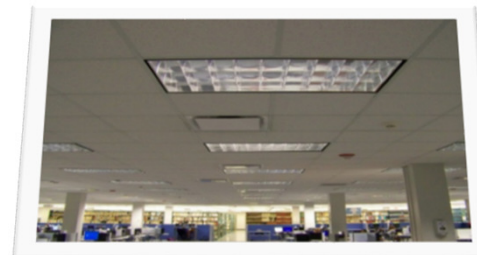
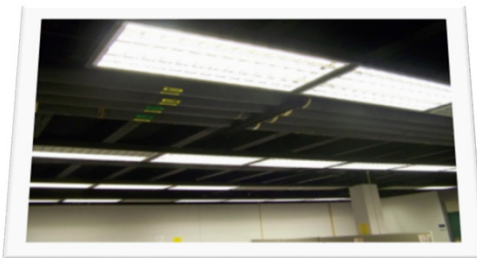
NEPA SURVEY OF
PROPOSED PROJECT



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

Take pics of the existing types of interior lighting fixtures to be replaced



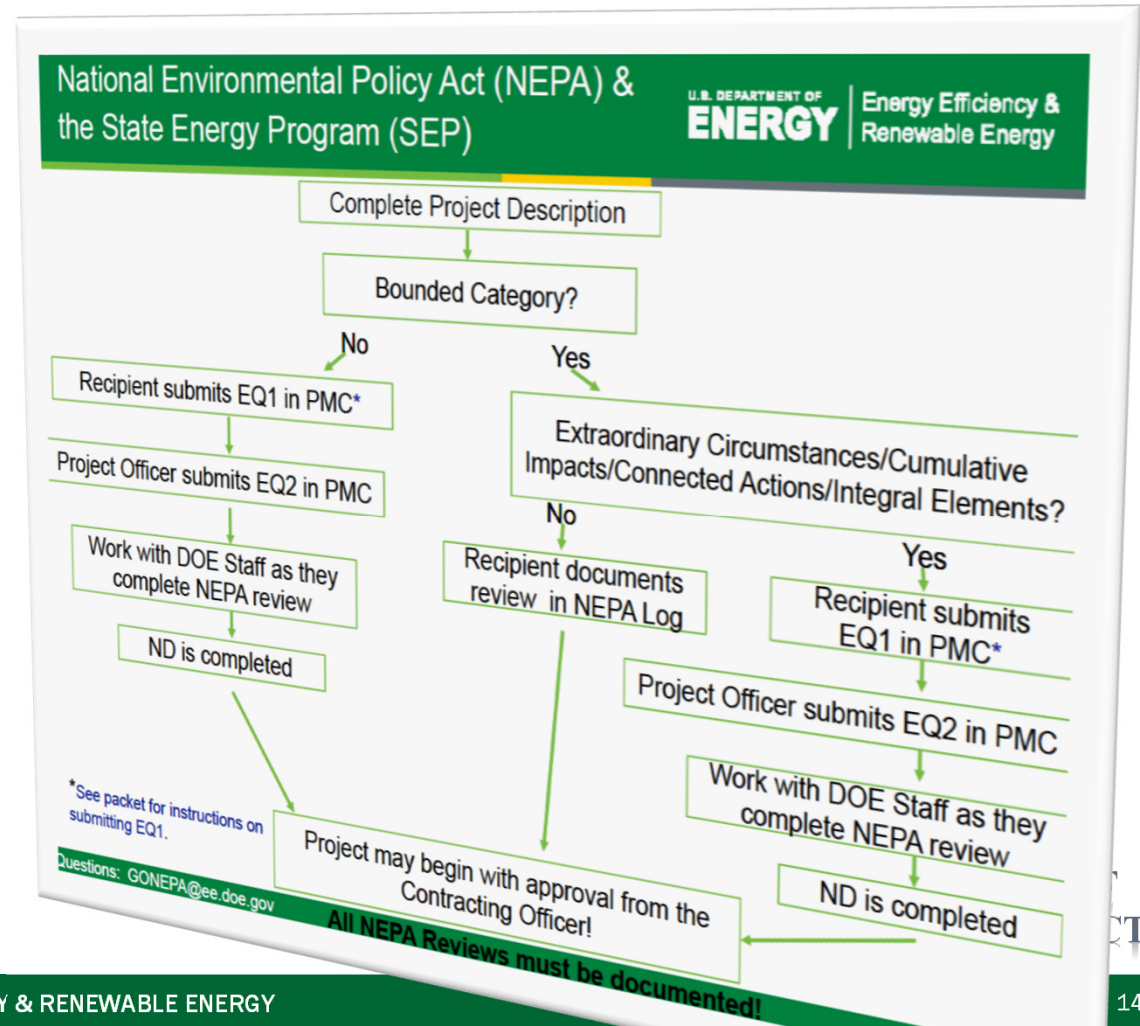
NEPA SURVEY OF
PROPOSED PROJECT



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

Diana's
NEPA Flow Chart





NEPA Determination Case Studies

“University of New Orleans – Lighting Efficiency



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

Louisiana Revolving Loan Fund Program	
Louisiana Revolving Loan Fund Program NEPA Compliance Review Checklist	
Please complete all fields in this form	
Date: <u>5/9/17</u>	<u>7/1/17</u>
Applicant: <u>University of New Orleans</u>	Anticipated Start Date
Authorized Official @ mtg.: <u>Warren Davis, Jr.</u>	Anticipated Completion Date: <u>10/31/17</u>
Type of Proposed Project: <u>Lighting Efficiency Upgrade Project</u>	
<u>UNO Campus walk-thru of proposed improvement areas</u>	
1)...Project Activity: (Description of proposed project)	
1) Project Activity: (Description of proposed project)	
<p>The University of New Orleans has developed a plan to implement state-of-the-art LED lighting solutions based on energy reduction objectives and project payback goals. Using a combination of LED lamps and fixtures, the lighting solution for each location is designed to maximize energy savings within a budget that provides a project payback from energy saved of under 5 years, and will save 853 kW annually (over 4.25 million kWh). The upgrade of all outdoor lighting will also enhance campus safety by providing more and brighter exterior lighting throughout the campus.</p>	
Describe project activity	
<i>*Please insert photos and additional descriptive information after this project description</i>	

Include...

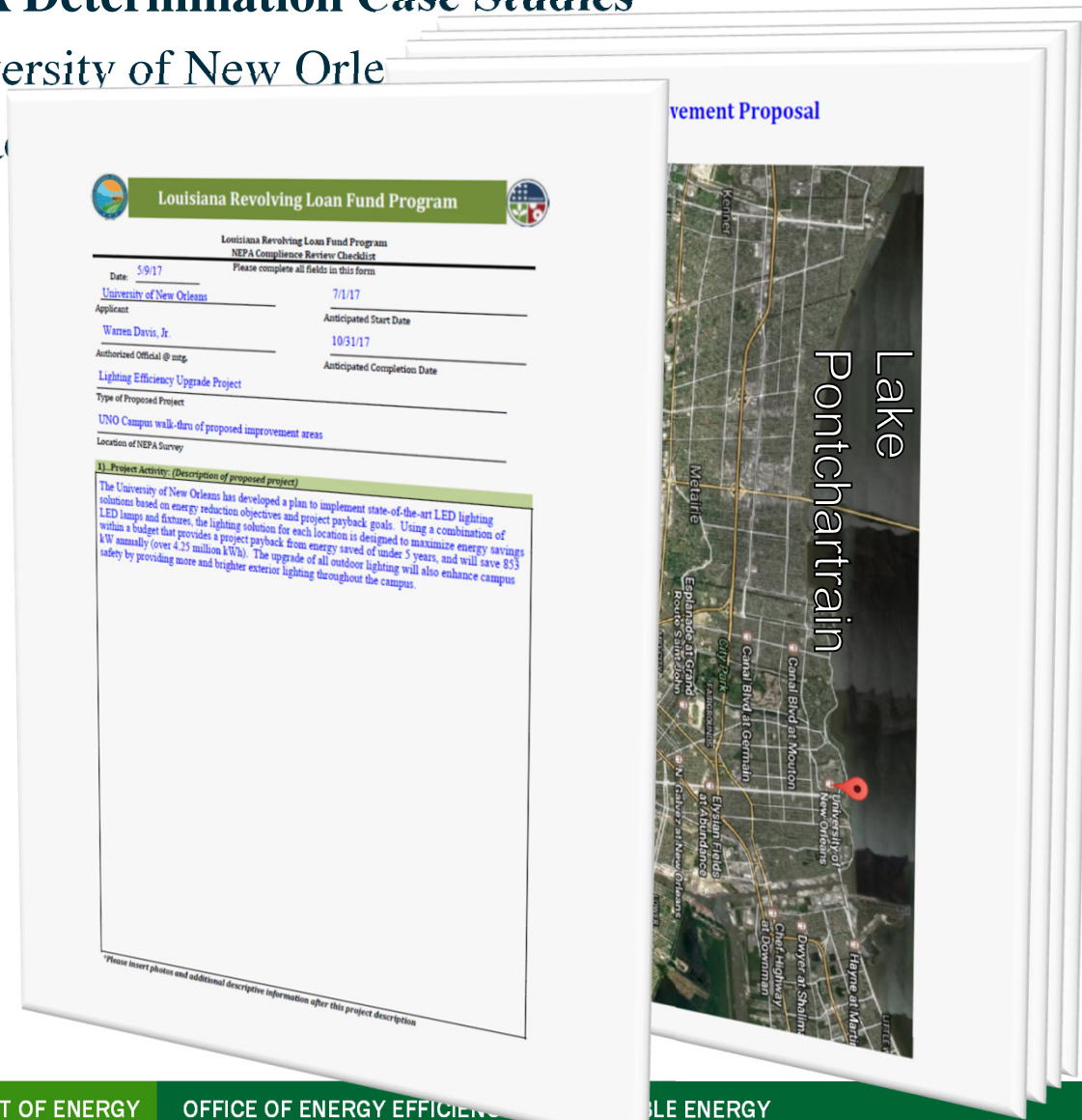
- Who
- What
- How
- Where



NEPA Determination Case Studies

“University of New Orleans

Upgrade



Louisiana Revolving Loan Fund Program

Louisiana Revolving Loan Fund Program
NEPA Compliance Review Checklist
Please complete all fields in this form

Date: 5/9/17	
Applicant: University of New Orleans	Anticipated Start Date: 7/1/17
Authorized Official @ org: Warren Davis, Jr.	Anticipated Completion Date: 10/31/17
Type of Proposed Project: Lighting Efficiency Upgrade Project	
UNO Campus walk-thru of proposed improvement areas	
Location of NEPA Survey	
1) Project Activity: (Description of proposed project)	
The University of New Orleans has developed a plan to implement state-of-the-art LED lighting solutions based on energy reduction objectives and project payback goals. Using a combination of LED lamps and fixtures, the lighting solution for each location is designed to maximize energy savings within a budget that provides a project payback from energy saved of under 5 years, and will save 853 kW annually (over 4.25 million kWh). The upgrade of all outdoor lighting will also enhance campus safety by providing more and brighter exterior lighting throughout the campus.	
<small>*Please insert photos and additional descriptive information after this project description</small>	

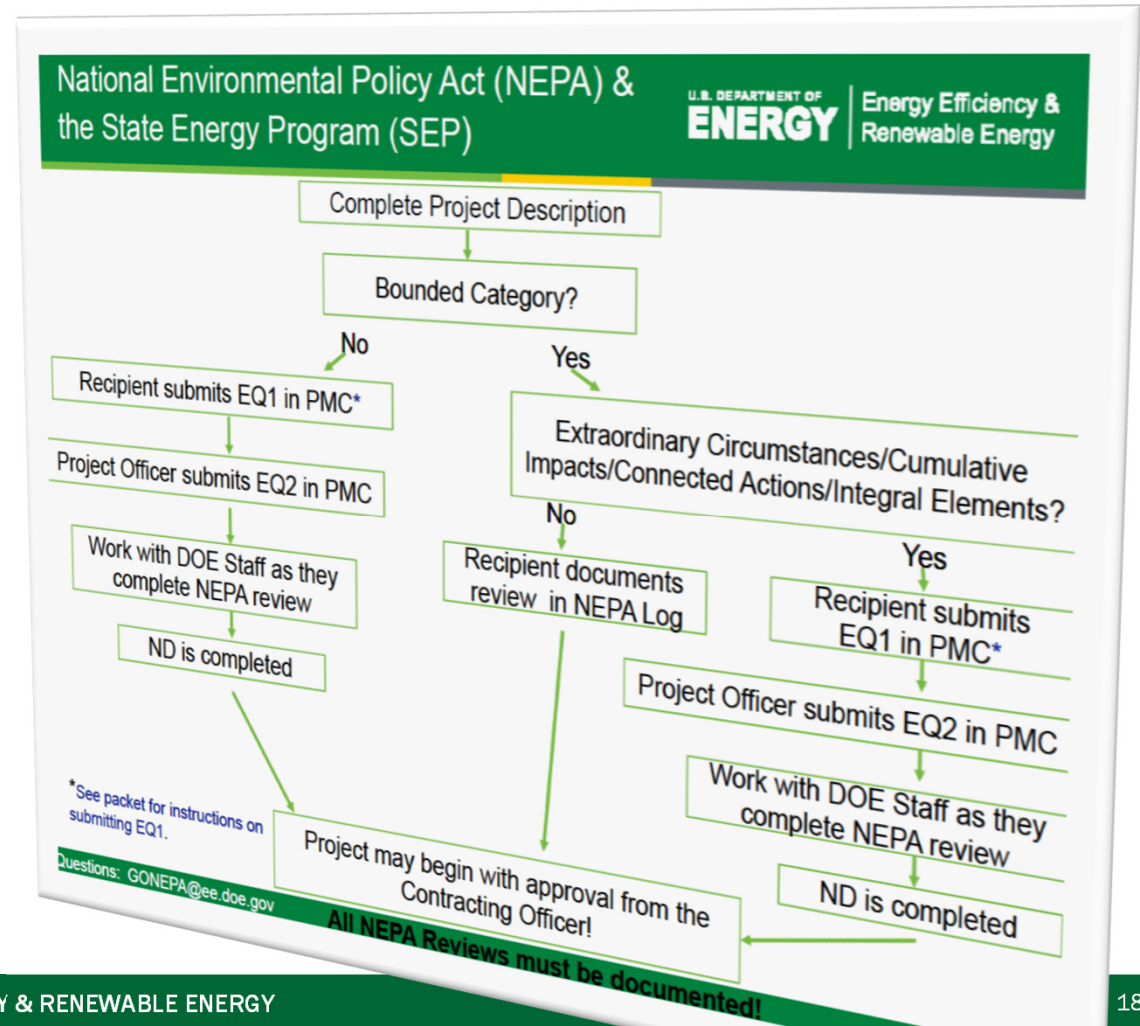




NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

Diana's
NEPA Flow Chart





NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency

Upgrade Project”

2)...Does the proposed project fall within the Bounded Category?

YES - Go to #3 NO - Go to #5

Bounded Categories:

- 1) Administrative activities associated with management of the designated State Energy Office and management of programs and strategies to encourage energy efficiency and renewable energy, including energy audits.
- 2) Development and implementation of programs and strategies to encourage energy efficiency and renewable energy.
- 3) Funding energy efficiency upgrades, provided the projects apply the restrictions of each state's programmatic agreement with SHPO, and are limited to:
 - a) installation of insulation;
 - b) installation of energy efficient lighting;
 - c) HVAC upgrades (to existing systems);
 - d) weather sealing;
 - e) purchase and installation of ENERGY STAR appliances (such as but not limited to furnaces and air conditioners);
 - f) replacement of windows and doors; and
 - g) high efficiency shower/faucet upgrade.
- 4) Installation of onsite renewable energy technology, such as solar powered appliances and biomass heating systems.
- 5) Development, implementation, and installation of onsite renewable energy technology that generates electricity from renewable resources, provided that projects are limited to:
 - a) Solar Electricity/Photovoltaic - appropriately sized system or unit on existing rooftops and parking shade structures; or a 60kW system or smaller unit installed on the ground within the boundaries of an existing facility.
 - b) Wind Turbine - 20kW or smaller.
 - c) Solar Thermal (including solar thermal hot water) - Systems must be 20kW or smaller.
 - d) Ground Source Heat Pump - 5.5 tons of capacity or smaller, horizontal/vertical, ground, closed-loop system.
 - e) Combined heat and Power System - boilers sized appropriately for the buildings in which they are located.
 - f) Biomass Thermal - 30Mbtu per hour or smaller system with appropriate Best Available Controls Technology (BACT) installed and operated.
- 6) Development, implementation, and installation of energy efficient or renewable energy-powered emergency systems (lighting, cooling, heat, shelter) installed in existing buildings and facilities.
- 7) Installation of alternative fueling pumps and systems for fuels such as compressed natural gas, hydrogen, ethanol, and other commercially available biofuels, (but not storage tanks) installed on the site of a current or former fueling station, or within a previously disturbed, or developed area within the boundaries of a facility managed by the owners of a vehicle fleet.
- 8) Purchase of alternative fuel vehicles.
- 9) Installation of electric vehicle charging stations installed on existing facilities.
- 10) Development and implementation of training programs.
- 11) Development and implementation of building codes and inspection services, and associated training and enforcement of such codes in order to support code.
- 12) Implementing financial incentive programs such as rebates and energy savings performance contracts for existing facilities or for energy efficient equipment, provided that the incentives are not so large that they would be deemed to be grants that create projects that would not otherwise exist. (Dependent on technology)



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

3)...Are there any Extraordinary Circumstances/Cumulative Impacts/Connected Actions/Intergal Elements?

YES - Go to #5 NO - Go to #4

State why you think this project falls within the Bounded Category, OR Explain any elements stated in #3:
All upgraded exterior lighting will use existing electrical servitude for electrical power with no need for new earth removal/digging. Interior lighting updates will be installed at existing lighting junction boxes. The project location does not fall within existing floodplains or designated wetlands
This work falls within the Bounded Category #3
a) installation of energy efficient lighting
Will forward to the U.S. DOE for their review and determination and or approval of Category Exclusion 5.1

Describe what Bounded Category the project falls under

Includes looking at things such as (*in LA*):

- Flood Plain maps
- SHPO approval
- Wetlands restrictions
- Bird & Wildlife Refuge
- Estuary impacts



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

4)...E-mail this packet to D.O.E. requesting conformation that this project falls within the Bounded Category, then ~~~~~Go to #7

Prepare the e-mail to the D.O.E. (include items 1-3 of this packet as an attachment in the e-mail) and include any Extraordinary Circumstances/Cumulative Impacts/Connected Actions/Integral Elements. then ~~~~~Go to #6

EQ 1 filename:

Details/Clarifications/Explanations:

From: Buddy Justice (mailto:BuddyJustice@LA.GOV)
Sent: Tuesday, July 18, 2017 12:25 PM
To: Lamp, Randall <Randall.Lamp@ee.doe.gov>; Heyder, Diana <diana.heyder@ee.doe.gov>
Cc: Louis McArthur <Louis.McArthur@LA.GOV>
Subject: Louisiana's LARLF University of New Orleans Lighting Project

Randall/Diana,
Attached is our NEPA review documentation for the UNO Lighting Project for your review.
It appears to be under Category Exclusion 5.1.
Please let me know if you need any additional information on this project.
We will wait to hear back from you with your determination.

Thanks,
Buddy Justice
Louisiana Department of Natural Resources
Ofc: #225-342-4998
Fax: #225-242-3530
e-mail: buddy.justice@la.gov

Insert a copy of the e-mail request HERE



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency

Upgrade Project”

7)...Once D.O.E. completes their NEPA Determination on this project, you will receive confirmation from D.O.E. in (1) one of two ways:

Bounded Category Confirmation

You will receive a reply to the e-mail you sent to D.O.E. in #4 stating that they confirm that the project falls within the Bounded Category (*print this out and save as the NEPA Determination for this project*)

Non-bounded Category Confirmation

You will receive an e-mail notification that an EQ 2 NEPA Determination has been completed for this project and is available for you to access and download on the FMC website (*print this out and save as the NEPA Determination for this project*)

then-----Go to #8

8)...Document review in the NEPA Log
then-----Go to #9

9)...Project may begin

Notes:

Buddy Justice

From: Buddy Justice (buddyjustice@doe.gov)
Sent: Friday, July 20, 2012 12:02 PM
To: Louis McArthur (Louis.McArthur@UNO.edu)
Subject: RE: Louisiana UNO's University of New Orleans Lighting Project

Good morning,

Based on the information, the project type appears to be covered by the energy efficiency approach (EAF) as outlined in the Bounded Categories.

Thank you!
Diana

Diana Hyder
U.S. Department of Energy
1000 Commerce Street
Wash DC 20548
Office: 485 562 3334
Mobile: 703 592 3334

From: Buddy Justice (buddyjustice@doe.gov)
Sent: Tuesday, July 18, 2012 12:02 PM
To: Louis McArthur (Louis.McArthur@UNO.edu); Hyder, Diana (diana.hyder@doe.gov)
Cc: Louis McArthur (Louis.McArthur@UNO.edu)
Subject: Louisiana UNO's University of New Orleans Lighting Project

Hi Diana/Diana,

Attached is our NEPA review documentation for the UNO Lighting Project for your review.

If relevant to our Bounded Category Decision E.E.

Please let me know if you need any additional information on the project.

We will wait to hear back from you with your determination.

Thanks,
Buddy Justice
Assistant Secretary of National Resources
(9) 4225 542 4870
July 18, 2012 12:02 PM
www.buddyjustice@doe.gov

Insert a copy of the
e-mail response HERE



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

7) ...Once D.O.E. completes their NEPA Determination on this project, you will receive confirmation from D.O.E. in (1) one of two ways:

Bounded Category Confirmation
You will receive a reply to the e-mail you sent to D.O.E. in #4 stating that they confirm that the project falls within the Bounded Category (print this out and save as the NEPA Determination for this project)

Non-bounded Category Confirmation
You will receive an e-mail notification that an EQ 2 NEPA Determination has been completed for this project and is available for you to access and download on the FMC website (print this out and save as the NEPA Determination for this project)

8) ...Document review in the NEPA Log then ~~~~~Go to #9

9) ...Project may begin

Notes:

Buddy Justice

From: Buddy Justice (buddyjustice@doe.gov)
Sent: Friday, July 21, 2017, 12:01 PM
To: Louis McArthur (Louis.McArthur@AUSDOT)
Cc: Louis McArthur (Louis.McArthur@AUSDOT)
Subject: RE: Louisiana L&L's University of New Orleans Lighting Project

Good morning,

Based on the information, the project type appears to be covered by the energy efficiency upgrade rule (EQR) as outlined in the Bounded Categories.

Thank you!
Diana

Diana Hyder
U.S. Department of Energy
1000 Commerce Street
Suite 10100
Office: 405-542-1314
Mobile: 702-500-1314

From: Buddy Justice (buddyjustice@doe.gov)
Sent: Tuesday, July 18, 2017, 12:01 PM
To: Louis McArthur (Louis.McArthur@AUSDOT); Hyder, Diana (diana.hyder@doe.gov)
Cc: Louis McArthur (Louis.McArthur@AUSDOT)
Subject: Louisiana L&L's University of New Orleans Lighting Project

Hi Diana/Diana,

Attached is our NEPA review documentation for the LNO Lighting Project for your review.

If allowed to use Bounded Category Decision E.Q.

Please let me know if you need any additional information on the project.

We will wait to hear back from you with your information.

Thanks,
Buddy Justice
Assistant Secretary of National Resources
(405) 542-4876
July 18, 2017, 12:01 PM
E-mail: buddyjustice@doe.gov

Entered into the NEPA Log on 7/21/17
Enter the date HERE



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

NEPA Log

NEPA Bounded Category Log										
No.	Project Title	Project Number	Project Start Date	Project Description	Bounded Category (1-10)	SIPO Consultation/Documentation	Extraordinary Circumstances*	Cumulative Impacts*	Connected Actions*	"Integral elements" applicable to Appendix B classes of Action*
23	Jefferson Parish Terrytown2, Belois, & Transcontinental	DE-EE 0000124	3/31/2015	Wastewater Treatment Project that replaces existing pumps with highly efficient pumps	NEPA Review Conducted Before Approval	SIPO Form Version 10/24/13 submitted	N/A	NONE	There will be no additional work or equipment installed at this location connected with this project	N/A
24	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	N/A
Bounded Category (1-12)										
25	SEP - Program Year 2017 - Formal Awards	SEP-ALRD-2017	7/1/2017	State Energy Program - Program Year 2017 - Formal Awards - Administrative and Legal Requirements Document (ALRD)	NEPA Review Conducted Before Approval	N/A	N/A	N/A	N/A	N/A
26	UNO - Lighting Upgrades	DE-EE0007475		Energy efficiency lighting upgrades throughout campus exterior and within multiple building interiors	Bounded Category (2a)BS.1 - Funding Energy Efficiency Retrofits	SIPO Form Version 7/10/15 submitted	N/A	N/A	N/A	Categorical Exclusion BS.1
27	City of Kenner - Street Lighting Upgrades	DE-EE0007475		Energy efficiency lighting upgrades on W. Esplanade Ave.	Bounded Category (2a)BS.1 - Funding Energy Efficiency Retrofits	SIPO Form Version 7/10/15 submitted	N/A	N/A	N/A	Categorical Exclusion BS.1
28	Jefferson Parish - Street Lighting Upgrades	DE-EE0007475		Energy efficiency lighting upgrades on Green Acres Road & Canaway Blvd.	Bounded Category (2a)BS.1 - Funding Energy Efficiency Retrofits	SIPO Form Version 7/10/15 submitted	N/A	N/A	N/A	Categorical Exclusion BS.1
29	City of Kenner - Lib Station Efficiency Upgrades	DE-EE0007475		Wastewater Treatment Project that replaces existing pumps with highly efficient pumps & motors	NEPA Review Conducted Before Approval	SIPO Form Version 7/10/15 submitted	N/A	NONE	N/A	Categorical Exclusion BS.2
30										N/A



NEPA Determination Case Studies

“University of New Orleans...Lighting Efficiency Upgrade Project”

7) ...Once D.O.E. completes their NEPA Determination on this project, you will receive confirmation from D.O.E. in (1) one of two ways:

Bounded Category Confirmation

You will receive a reply to the e-mail you sent to D.O.E. in #4 stating that they confirm that the project falls within the Bounded Category (*print this out and save as the NEPA Determination for this project*)

Non-bounded Category Confirmation

You will receive an e-mail notification that an EQ 2 NEPA Determination has been completed for this project and is available for you to access and download on the FMC website (*print this out and save as the NEPA Determination for this project*)

then.....Go to #8

8) ...Document review in the NEPA Log

then.....Go to #9

9) ...Project may begin

Notes:

Buddy Justice

From: Buddy Justice <buddyjustice@doe.gov>
Sent: Friday, July 20, 2017, 12:01 PM
To: Louis McArthur, and Diana
Cc: Louis McArthur, and Diana
Subject: RE: Louisiana LUMC University of New Orleans Lighting Project

Good morning,

Based on the information, the project type appears to be covered by the energy efficiency approach (EQ2) as outlined in the Bounded Categories.

Thank you!
Diana

Diana Hayden
U.S. Department of Energy
1000 Commerce Street
Wash, DC 20548
Office: 485 562 3334
Mobile: 703 204 3334

From: Louis McArthur <louis.mcarthur@doe.gov>
Sent: Tuesday, July 18, 2017, 12:01 PM
To: Louis McArthur <louis.mcarthur@doe.gov>; Hayden, Diana <diana.hayden@doe.gov>
Cc: Louis McArthur <louis.mcarthur@doe.gov>
Subject: Louisiana LUMC University of New Orleans Lighting Project

Hi Diana/Diana,

Attached is our NEPA review documentation for the LUMC Lighting Project for your review.

If relevant to our Bounded Category Decision U.S.

Please let me know if you need any additional information on the project.

We will wait to hear back from you with your information.

Buddy Justice
Louisiana Department of Natural Resources
(904) 422-5424 ext 4400
July 18, 2017, 12:01 PM
E-mail: buddyjustice@doe.gov

Entered into the NEPA Log on 7/21/17

Proposed Start Date 11/30/17

Enter proposed
start date HERE

LOUISIANA'S APPROACH TO NEPA



NEPA Determination Case Studies

- Falls within the Bounded Categories
- Falls outside of the Bounded Categories

REMEMBER

Whether in a Bounded or Non-Bounded Category,
we treat all projects systematically the same way



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

The proposed project included replacement of existing inefficient fixed capacity pumps and motors with VFD high efficiency pumps and motors



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

The proposed project included replacement of existing inefficient fixed capacity pumps and motors with VFD high efficiency pumps and motors

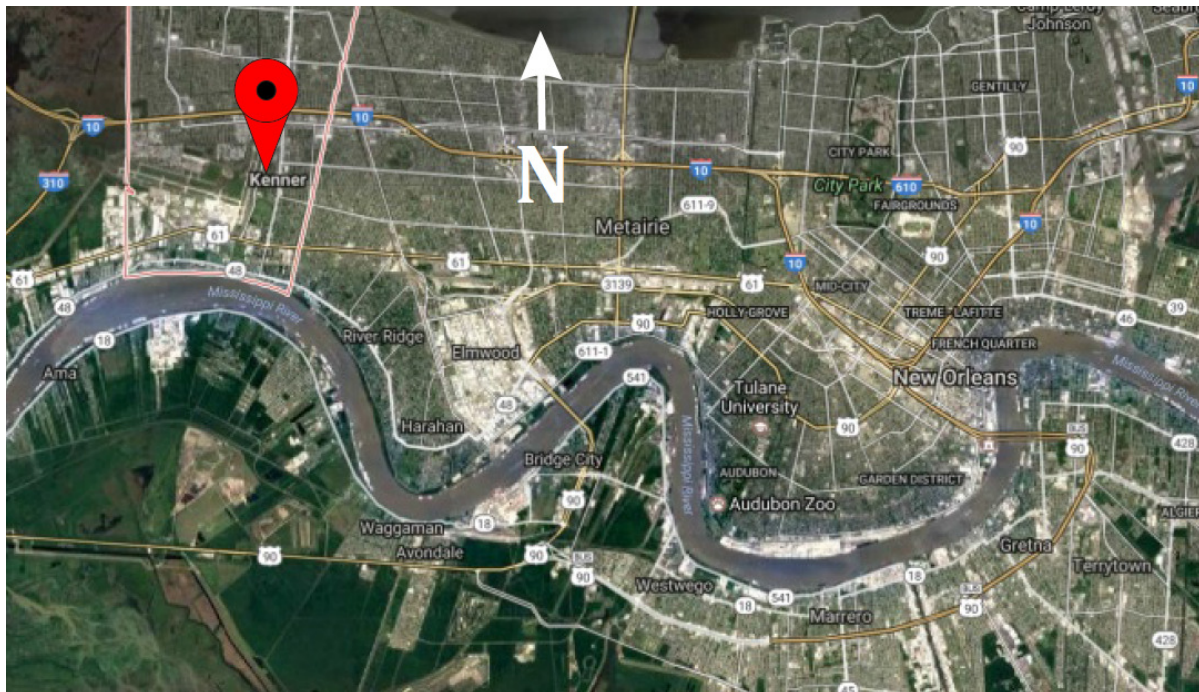
This work does not fall within any of the Bounded Categories



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Provide a Google Earth print out of the project location that shows its relationship to known landmarks



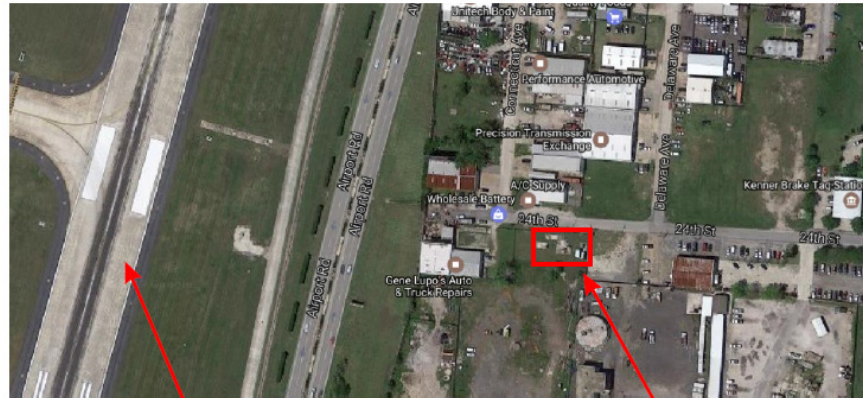
NEPA SURVEY OF
PROPOSED PROJECT



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Additional Google Earth shots showing the project's relative location can also be helpful for making the NEPA Determination



Louis Armstrong International Airport

Lift Station



NEPA SURVEY OF
PROPOSED PROJECT

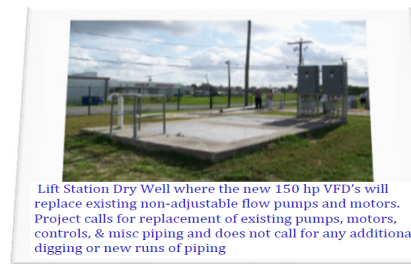


NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”



Take pics of the existing equipment that is to be replaced labeled with as much information about the proposed project as possible



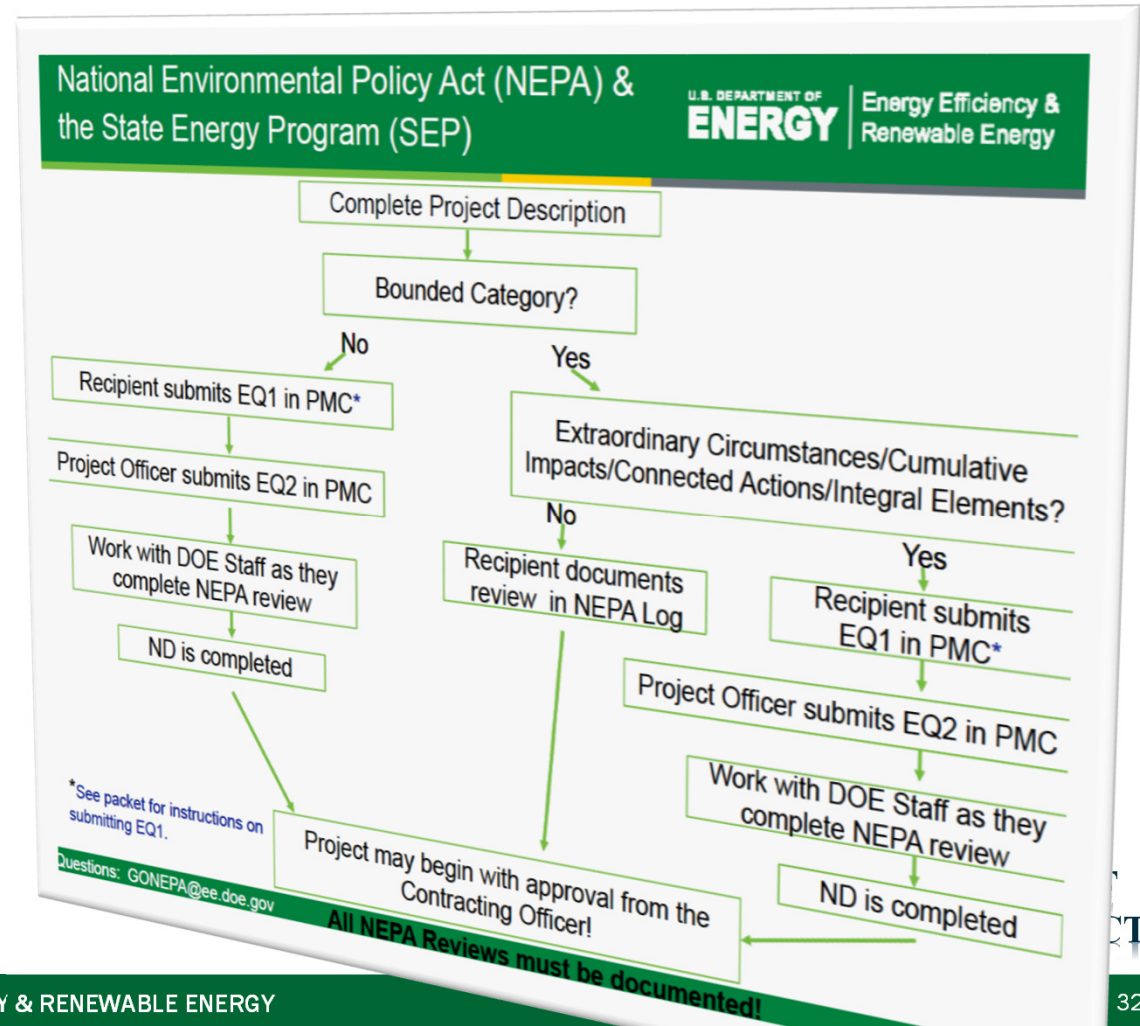
NEPA SURVEY OF PROPOSED PROJECT



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Diana's
NEPA Flow Chart





NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Louisiana Revolving Loan Fund Program

Louisiana Revolving Loan Fund Program
NEPA Compliance Review Checklist

Please complete all fields in this form

<small>Date:</small> 5/18/17	<small>Anticipated Start Date:</small> 11/30/17
<small>Applicant:</small> City of Kenner	<small>Anticipated Completion Date:</small> 10/1/19
<small>Authorized Official @ mrg.:</small> Doug Dodt	
<small>Type of Proposed Project:</small> Lift Station Pump Efficiency Improvements	
<small>Lift Station located at the corner of 24th Street & Delaware Ave. in Kenner, LA</small>	

1)...Project Activity: (Description of proposed project)

24th & Delaware is the most energy intensive lift station in the city. This station alone uses 15% of all electrical power required to run the city's collection system. This is a standalone project and is expected to save in the neighborhood of 25-75% on energy use at this station thereby reducing the energy bill for the city by 6%.

Proposed project includes the installation of two (2) 150-hp and two (2) 300-hp variable frequency drives (VFDs) and required control panel components and/or cabinets and 6-inch and 10-inch motor changers, are being requested. Furthermore, two transducers are needed for each of the two (2) wet wells. Funding will be used for above mentioned electrical upgrades, rehabilitation and professional services for the 24th and Delaware Lift Station (see attached map).

This is a large facility and accepts flows from 15 upstream lift stations. Apart from servicing various schools, and medical facilities across the city, the newly constructed terminal at the New Orleans International Airport will also send its flow to this station. The installation of VFDs is expected to reduce energy consumption by adjusting the energy demand based on the flow handled at any given point in time. It is expected that installation of energy efficiency measures will reduce the energy consumption and associated emission of greenhouse gas (GHG)

Describe project activity

**Please insert photos and additional descriptive information after this project description*

Include...

- Who
- What
- How
- Where



NEPA Determination Case Studies

“City of Kenner Sewerage

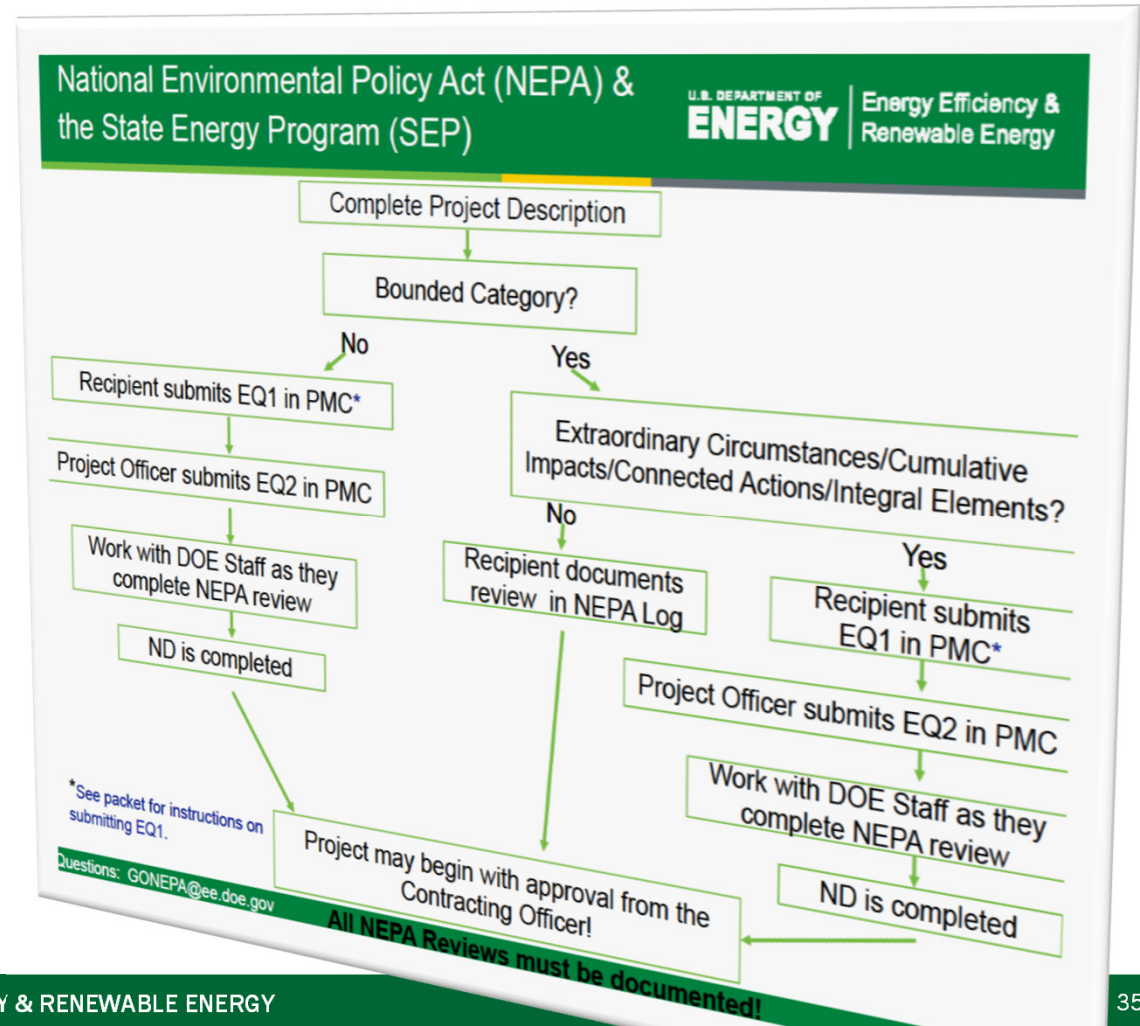
Upgrade



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Diana's
NEPA Flow Chart





NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

2)...Does the proposed project fall within the Bounded Category?

YES - Go to #3

NO - Go to #5

Bounded Categories:

- 1) Administrative activities associated with management of the designated State Energy Office and management of programs and strategies to encourage energy efficiency and renewable energy, including energy audits.
- 2) Development and implementation of programs and strategies to encourage energy efficiency and renewable energy.
- 3) Funding energy efficiency upgrades, provided the projects apply the restrictions of each state's programmatic agreement with SEP0 and are limited to:
 - a) installation of insulation;
 - b) installation of energy efficient lighting;
 - c) HVAC upgrades (to existing systems);
 - d) weather sealing;
 - e) purchase and installation of ENERGY STAR appliances (such as but not limited to: furnaces and air conditioners)
 - f) replacement of windows and doors; and
 - g) high efficiency shower/faucet upgrade
- 4) Installation of onsite renewable energy technology, such as solar powered appliances and biomass heating systems.
- 5) Development, implementation, and installation of onsite renewable energy technology that generates electricity from renewable resources, provided that projects are limited to:
 - a) Solar Electricity/Photovoltaic - appropriately sized system or unit on existing rooftops and parking shade structures; or a 60kW system or smaller unit installed on the ground within the boundaries of an existing facility.
 - b) Wind Turbine - 20kW or smaller.
 - c) Solar Thermal (including solar thermal hot water) - Systems must be 20kW or smaller.
 - d) Ground Source Heat Pump - 5 tons of capacity or smaller, horizontal, vertical, ground, closed-loop system.
 - e) Combined heat and Power System - boilers sized appropriately for the buildings in which they are located.
 - f) Biomass Thermal - 3MMbtus per hour or smaller system with appropriate Best Available Controls Technology (BACT) installed and operated.
- 6) Development, implementation, and installation of energy efficient or renewable energy-powered emergency systems (lighting, cooling, heat, shelter) installed in existing buildings and facilities.
- 7) Installation of alternative fueling pumps and systems for fuels such as compressed natural gas, hydrogen, ethanol, and other commercially available biofuels, (but not storage tank-) installed on the site of a current or former fueling station, or within a previously disturbed, or developed area within the boundaries of a facility managed by the owners of a vehicle fleet.
- 8) Purchase of alternative fuel vehicles.
- 9) Installation of electric vehicle charging stations installed on existing facilities.
- 10) Development and implementation of training programs.
- 11) Development and implementation of building codes and inspection services, and associated training and enforcement of such codes in order to support code.
- 12) Implementing financial incentive programs such as rebates and energy savings performance contracts for existing facilities or for energy efficient equipment, provided that the incentives are not so large that they would be deemed to be grants that create projects that would not otherwise exist. (Dependent on technology)



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

5)...Prepare EQ 1 & enter it into the PMC (include Items 1-5 of this packet as an attachment in the EQ 1) , and include any Extraordinary Circumstances/Cumulative Impacts/Connected Actions/Integral Elements, then ~~~~~Go to #6

then ~~~~~Go to #6

EQ 1 filename:

Details/Clarifications/Explanations:

Item #5)...

The proposed project will replace existing non-adjustable inefficient pumps and motors with VFD pumps and motors that will allow adjustments to flow rates upon station demand. The changed out equipment will be retrofitted into existing space already occupied by pumps and motors. Any additional piping and control modifications needed to retrofit the improved pumping system will be installed in spaces already occupied by the existing system with no need for new earth digging/removal.

Entered the EQ 1 into the PMC on 7/19/17

See pages 9-40 for inserted copy of EQ 1, Waste Management Plan & fully executed prototype agreement SHPO document

Information that may help with the evaluation for the NEPA Determination

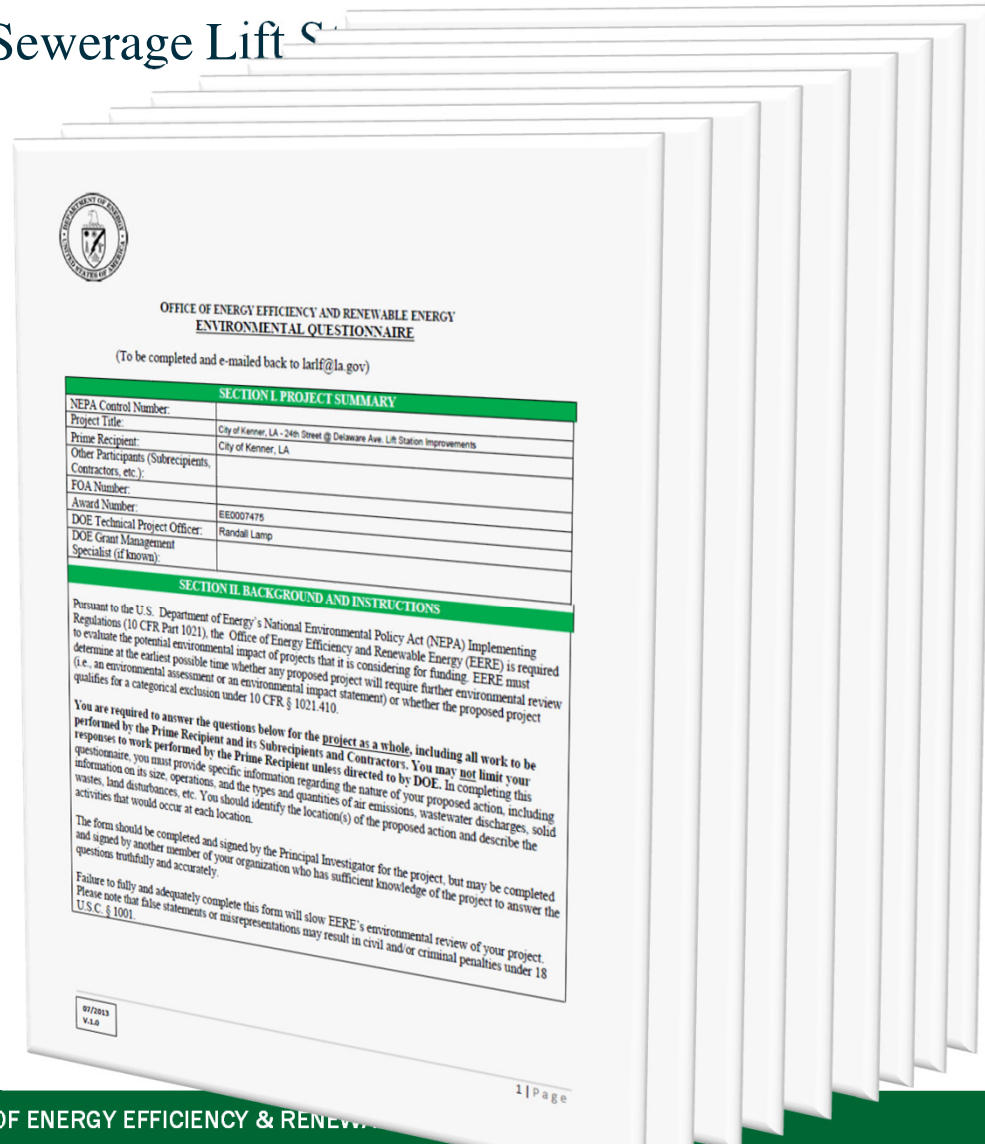
Includes looking at things such as (*in LA*):

- Floodplain maps
- SHPO approval
- Wetlands restrictions
- Bird & Wildlife Refuge
- Estuary impacts



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Upgrade Project”



EQ 1
(21 pages)

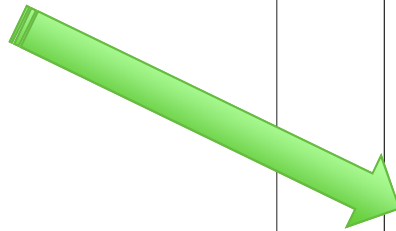


NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency

Upgr 5)...Prepare EQ 1 & enter it into the PMC (include Items 1-5 of this packet as an attachment in the EQ 1), and include any Extraordinary Circumstances/Cumulative Impacts/Connected Actions/Intergral Elements, then~~~~~Go to #6

Include a copy of the completed EQ-1



EQ 1 filename: NEPA COK Lift Station 4-28-17

Details/Clarifications/Explanations:

Item #5)...

The proposed project will replace existing non-adjustable inefficient pumps and motors with VFD pumps and motors that will allow adjustments to flow rates upon station demand. The changed out equipment will be retrofitted into existing space already occupied by pumps and motors. Any additional piping and control modifications needed to retrofit the improved pumping system will be installed in spaces already occupied by the existing system with no need for new earth digging/removal.

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- Wetlands restrictions
- Bird & Wildlife Refuge
- Estuary impacts



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Once you have created your PMC login account

GOTO:

<https://www.eere-pmc.energy.gov/NEPA.aspx>



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

EERE Project Management Center Home | Login: DOE Officials - Public Users

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HOME ABOUT BUSINESS OPPORTUNITIES **RECIPIENT RESOURCES** MEDIA GLOSSARY DOE OFFICIALS LOGIN

[EERE Project Management Center](#) » [Recipient Resources](#) » NEPA Compliance Information & Submissions [Printable Version](#)

Recipient/Applicant Login
Submit Reporting Requirements
FEMP Contractor Document Upload
NEPA Compliance Information & Submissions
eFOIA Electronic FOIA Request
State Energy Policy (SEP) Reference Documents
Forms
Questions & Comments

NEPA - Recipients

National Environmental Policy Act (NEPA) of 1969 42§431-4347

All projects receiving financial assistance from DOE must be reviewed under NEPA. The first step in DOE's NEPA review process requires financial assistance recipients to submit information to DOE regarding the potential environmental impacts of the project receiving DOE funds.

Submit NEPA Documents Online

NOTE: All NEPA users must create an Applicant-Recipient Sign in account for this web site. It is important that the new account be created using the same email address as previous EQ-1 NEPA Environmental submissions were created with. If another email address is used, previous submissions will not be accessible.

Before logging in you may want to view:
A sample blank EQ-1 ([PDF 680 KB](#) [Jb](#)):
[Download Acrobat Reader](#)

- [Log into the EERE-PMC Applicant, Recipient & Vendor Login Page](#)
- [Register a new Login Account](#)

NEPA Resources

- [eNEPA website for DOE Officials](#)
- [National Environmental Policy Act of 1969 \(NEPA\) U.S.C.431-4347](#)
- [Office of NEPA Policy and Compliance](#)

NEPA COMPLIANCE TRACKING

 NEPA Compliance Dashboard
Track NEPA Environmental Questionnaire submissions and drill down into the data by fiscal year and state to the individual Environmental Questionnaire, EQ-1. submissions, EQ-2 Reviews and ND Final Determinations.

FEATURES

 **The Golden Field Office Reading Room**
The Golden Field Office Reading Room contains electronic documents that were created after November 1, 1996, per the requirements of the Electronic Freedom of Information Act Amendment of 1996. This includes Freedom of Information Act (FOIA), National Environmental Policy Act (NEPA), and National Renewable Energy Laboratory (NREL) documents and Golden's [eFOIA online request form](#).



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

Welcome Logan Sholar
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Personal Directories **NEPA EQ Submissions** Your DOE Awards Submit Your Reporting Requirements Update Your Account

Your Document Directories

You may store, upload and download files from any location your system. There is a 50 MB size limitation. Your DOE Officials have full access to this area and may upload documents for your collaboration. Please be sure to notify you DOE officials of the files you upload if they require DOE review.

THIS AREA IS NOT FOR REPORTING REQUIREMENTS OR NEPA EQ-1 SUPPORTING DOCUMENT UPLOADS.
Upload your reporting requirements through the "Submit Your Reporting Requirements" area
and your NEPA EQ-1 documents through the NEPA EQ-1 Submissions area.

NOTE: All files are monitored for malicious or inappropriate content.

Select File(s) to Upload Create a New Directory


Name	Size	Date Modified	Actions
<input type="checkbox"/> SEP_COMPETITIVE_FOA_2014April.pdf	668 KB	10/06/2014	Rename

1 object(s)



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

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Personal Directories | **NEPA EQ Submissions** | Your DOE Awards | Submit Your Reporting Requirements | Update Your Account

NEPA Compliance Information
National Environmental Policy Act (NEPA) of 1969 - 425431-4347

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Before Submitting and Environmental Questionnaire (EQ-1) form, you may want to view the sample form:
Sample blank EQ-1 form([PDF 677 KB](#)). [Download Acrobat Reader](#)

SPECIAL NOTES:

1. Submissions may be updated until the DOE Project Officer has completed final review by clicking the edit\pencil icon at the top left corner of each submission record in the list below.
2. Additional Documents may be uploaded by clicking the edit\pencil Icon at the top left corner of each submission record in the list below and continuing to Step 2 or on the Final Submission page of the edit page.

[+ Submit a new NEPA Environmental Questionnaire \(EQ-1\) Form](#) [+ Submit a new NREL Environmental Worksheet](#)


My NEPA Environmental Questionnaire Submissions

<input checked="" type="checkbox"/>	NEPA Control No:	DOE Award No:	FOA No:	Subcontract No:
Update this DOE EQ-1	Pending	Not Assigned	Not Assigned	Not Assigned
Project Title: Test				
Organization: Test				
DOE Project Officer: Adams, Jesse	Status: Pending NCO's Signature	Submitted: No Date Given	Signed by NCO: Pending	
Completed Forms: <input checked="" type="checkbox"/> DOE EQ-1				<input type="checkbox"/> DOE EQ-2 <input type="checkbox"/> DOE ND
Supporting Documents				Uploaded
license_permit_map.pdf				10/30/2014



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

 **DOE Environmental Compliance Web Site** Signed in: Logan Sholar
Environmental Questionnaire (EQ-1) Submission Page Return to your home page | Sign out

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Environmental Questionnaire Submission Status

SECTION I. PROJECT SUMMARY

Please Complete if the Information is Known
NOTE: If you select a DOE Award Number below, the fields will automatically be populated if the data is available.

DOE Award Number (CID) <input type="text"/> <input type="checkbox"/> Not Listed - Please Select	Financial Opportunity (FOA) Number <input type="text"/> <input type="checkbox"/> Not Listed - Please Select	Subcontract Number <input type="text"/>
--	--	---

Financial Opportunity Opportunity (FOA) Title

All Information Below is Required

***Project Title** ***State**

***Recipient/Organization Name**


*DOE Technology Office Point of Contact <input type="text"/>	DOE Grant Management Specialist (If known) <input type="text"/>
--	---

*Submitter's Name Logan Sholar	*Phone 720-356-1334	*Email logan.sholar@ee.doe.gov
*Business Contact's Name <input type="text"/>	*Phone <input type="text"/> - <input type="text"/> - <input type="text"/>	*Email <input type="text"/>



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

 **Welcome Logan Sholar**
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[+ Submit a new NEPA Environmental Questionnaire \(EQ-1\) Form](#) [+ Submit a new NREL Environmental Worksheet](#)

My NEPA Environmental Questionnaire Submissions

	NEPA Control No:	DOE Award No:	FOA No:	Subcontract No:
Update the DOE EQ-1	Pending	Not Assigned	Not Assigned	Not Assigned
Project Title: Test Step by Step				
Organization: Test Step by Step				
DOE Project Officer: Parker, Roak		Status: Pending NCO's Signature	Submitted: No Date Given	Signed by NCO: Pending
Completed Forms: <input checked="" type="checkbox"/> DOE EQ-1 <input checked="" type="checkbox"/> DOE EQ-2 <input checked="" type="checkbox"/> DOE ND				
Supporting Documents				Uploaded
 Human systems descriptions.pdf				2/12/2015



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

6)...You will receive an automatic e-mail reply once you submit your EQ-1 into the PMC. Your D.O.E. Program Officer will enter an EQ-2 into the PMC for this project. Work with the D.O.E. Staff on any issues that arise as they conduct their NEPA Determination, then~~~~~Go to #7

Issues/Important Information/Explanations:
Received acknowledgment that EQ 1 was successfully entered into the PMC on 7/19/17
Environmental Questionnaire Update to Submission Notification
U.S. Department of Energy - Office of Energy Efficiency and Renewable Energy
Updated By: Buddy Justice
DOE Project Officer: Lamp, Randall Email: Randall.Lamp@ee.doe.gov
DOE Grant Management Specialist: Dias, Brenda Email: Brenda.Dias@ee.doe.gov
Award Number: DE-EE0007475
Project Title: City of Kenney 24th Street @ Delaware Ave. Lift Station Improvements
Awardee: State of Louisiana Department of Natural Resources
EQ-1 Preparer: Buddy Justice Phone: 225-342-4498 Email: buddy.justice@la.gov
EQ-1 Contact: Deborah C. Foshee & nbsp;Phone: 504.468.4090 Email: dfoshee@kenner.la.us
Comments or Notes to the DOE Project Officer: Submitted on behalf of Buddy Justice 7/19/2017.
Go to the PMC website to view or verify updates to the Record: EERE-PMC Home

Insert a copy the automatic e-mail response HERE



NEPA Determination Case Studies

“City of Kenner Upgrade Project

7)...Once D.O.E. completes their NEPA Determination on this project, you will receive confirmation from D.O.E. in (1) one of two ways:

Bounded Category Confirmation
You will receive a reply to the e-mail you sent to D.O.E. in #4 stating that they confirm that the project falls within the Bounded Category. (print this out and save as the NEPA Determination for this project)

Non-bounded Category Confirmation
You will receive an e-mail notification that an EQ 2 NEPA Determination has been completed for this project and is available for you to access and download on the PMC website (print this out and save as the NEPA Determination for this project)

then~~~~~Go to #8

8) Document review in the NEPA Log
then~~~~~Go to #9

9) Project may begin

Notes:

-----Original Message-----
From: Diaz, Brenda [mailto:Brenda.Diaz@ee.doe.gov]
Sent: Friday, August 18, 2017 3:51 PM
To: Paul Miller (206)
Cc: Kingfish, Bob; Lamp, Randall
Subject: DOE Formals award DE-EE0007475, NEPA Determination

Hello Paul,
Please see the attached letter from the Contracting Officer and the NEPA Determination regarding the City of Kenner 24th Street @ Delaware Ave. Lift Station Improvements.
Let me or Randall know if you have any questions. Thank you.

Brenda Diaz, CIA
Grants Management Specialist
U.S. Department of Energy
Golden Field Office - Golden, CO 80601
720.356.1510

NEPA Determination File Name:
[CoK_Lift Sta_NEPA_8/20/17](#)

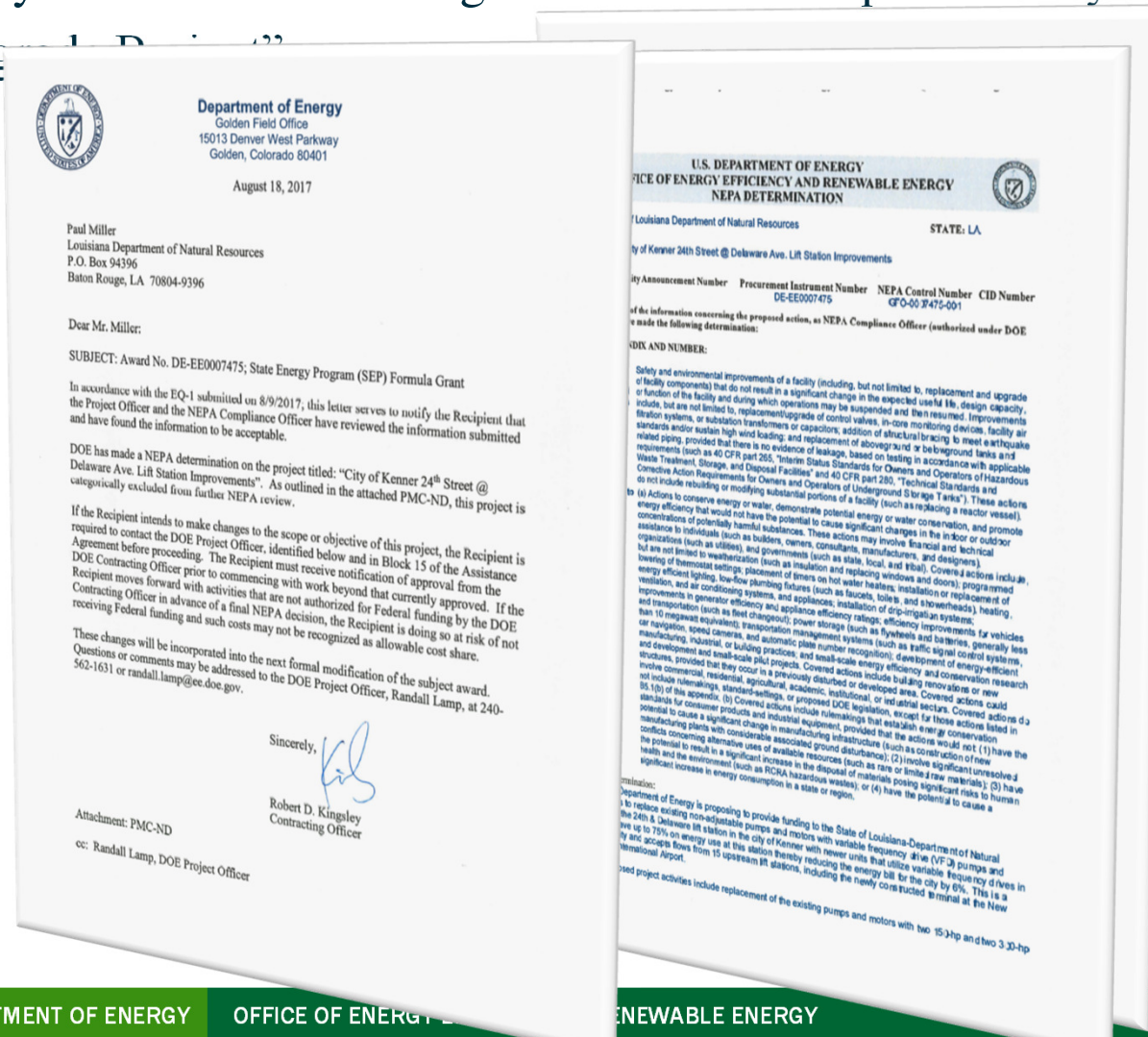
Insert a copy of the e-mail response from DOE & the Filename for the attached NEPA Determination
HERE



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency

Upgrade Determination



D.O.E.
NEPA
DETERMINATION



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

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8) ...Document review in the NEPA Log
then~~~~~Go to #9

9) ...Project may begin

Notes:

-----Original Message-----
From: Diaz, Brenda [mailto:Brenda.Diaz@fee.doe.gov]
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Cc: Kinghwy, Bob; Lamp, Randall
Subject: DOE Formals award DE-EE0007475, NEPA Determination

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Grants Management Specialist
U.S. Department of Energy
Golden Field Office - Golden, CO 80601
720.356.1519

NEPA Determination File Name:
CoK_Lift Sta_NEPA_8/20/17

Entered into the NEPA Log on 8/24/17

Enter the date HERE



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

NEPA Log

NEPA Bounded Category Log										
No.	Project Title	Project Number	Project Start Date	Project Description	Bounded Category (1-10)	SIPO Consultation/Documentation	Extraordinary Circumstances*	Cumulative Impacts*	Connected Actions*	"Integral elements" applicable to Appendix B classes of Action*
23	Jefferson Parish Terrytown2, Belois, & Transcontinental	DE-EE 0000124	3/31/2015	Wastewater Treatment Project that replaces existing pumps with highly efficient pumps	NEPA Review Conducted Before Approval	SIPO Form Version 10/24/13 submitted	N/A	NONE	There will be no additional work or equipment installed at this location connected with this project	N/A
24	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	Same as #23	N/A
Bounded Category (1-12)										
25	SEP - Program Year 2017 - Formal Awards	SEP-ALRD-2017	7/1/2017	State Energy Program - Program Year 2017 - Formal Awards - Administrative and Legal Requirements Document (ALRD)	NEPA Review Conducted Before Approval	N/A	N/A	N/A	N/A	N/A
26	UNO - Lighting Upgrades	DE-EE0007475		Energy efficiency lighting upgrades throughout campus exterior and within multiple building interiors	Bounded Category (2a)BS.1 -Funding Energy Efficiency Retrofits	SIPO Form Version 7/10/15 submitted	N/A	N/A	N/A	Categorical Exclusion BS.1
27	City of Kenner - Street Lighting Upgrades	DE-EE0007475		Energy efficiency lighting upgrades on W. Esplanade Ave.	Bounded Category (2a)BS.1 -Funding Energy Efficiency Retrofits	SIPO Form Version 7/10/15 submitted	N/A	N/A	N/A	Categorical Exclusion BS.1
28	Jefferson Parish - Street Lighting Upgrades	DE-EE0007475		Energy efficiency lighting upgrades on Green Acres Road & Caucway Blvd.	Bounded Category (2a)BS.1 -Funding Energy Efficiency Retrofits	SIPO Form Version 7/10/15 submitted	N/A	N/A	N/A	Categorical Exclusion BS.1
29	City of Kenner - Lift Station Efficiency Upgrades	DE-EE0007475		Wastewater Treatment Project that replaces existing pumps with highly efficient pumps & motors	NEPA Review Conducted Before Approval	SIPO Form Version 7/10/15 submitted	N/A	NONE	N/A	Categorical Exclusion BS.2
30										N/A



NEPA Determination Case Studies

“City of Kenner...Sewerage Lift Station Pump Efficiency Upgrade Project”

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then.....Go to #8

8) ...Document review in the NEPA Log
then.....Go to #9

9) ...Project may begin

Notes:

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From: Diox, Brenda [mailto:Brenda.Diox@ee.doe.gov]
Sent: Friday, August 18, 2017 3:51 PM
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Cc: Kingfish, Bob; Lamp, Randall
Subject: DOE Formub award DE-EE0007475, NEPA Determination

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Brenda Diox, CIA
Grants Management Specialist
U.S. Department of Energy
Golden Field Office - Golden, CO 80401
720.356.1519

NEPA Determination File Name:
CoK_Lift Sta_NEPA_8/20/17

Entered into the NEPA Log on 8/24/17

Proposed Start Date 11/30/17

Enter proposed start date HERE

QUESTIONS



Louisiana Department of Natural Resources State Energy Office

Buddy Justice... buddy.justice@la.gov

Louis McArthur... louis.mcarthur@la.gov

Office #... 225-342-1399