

The Environmental Review Process for Federally Funded LPA Projects



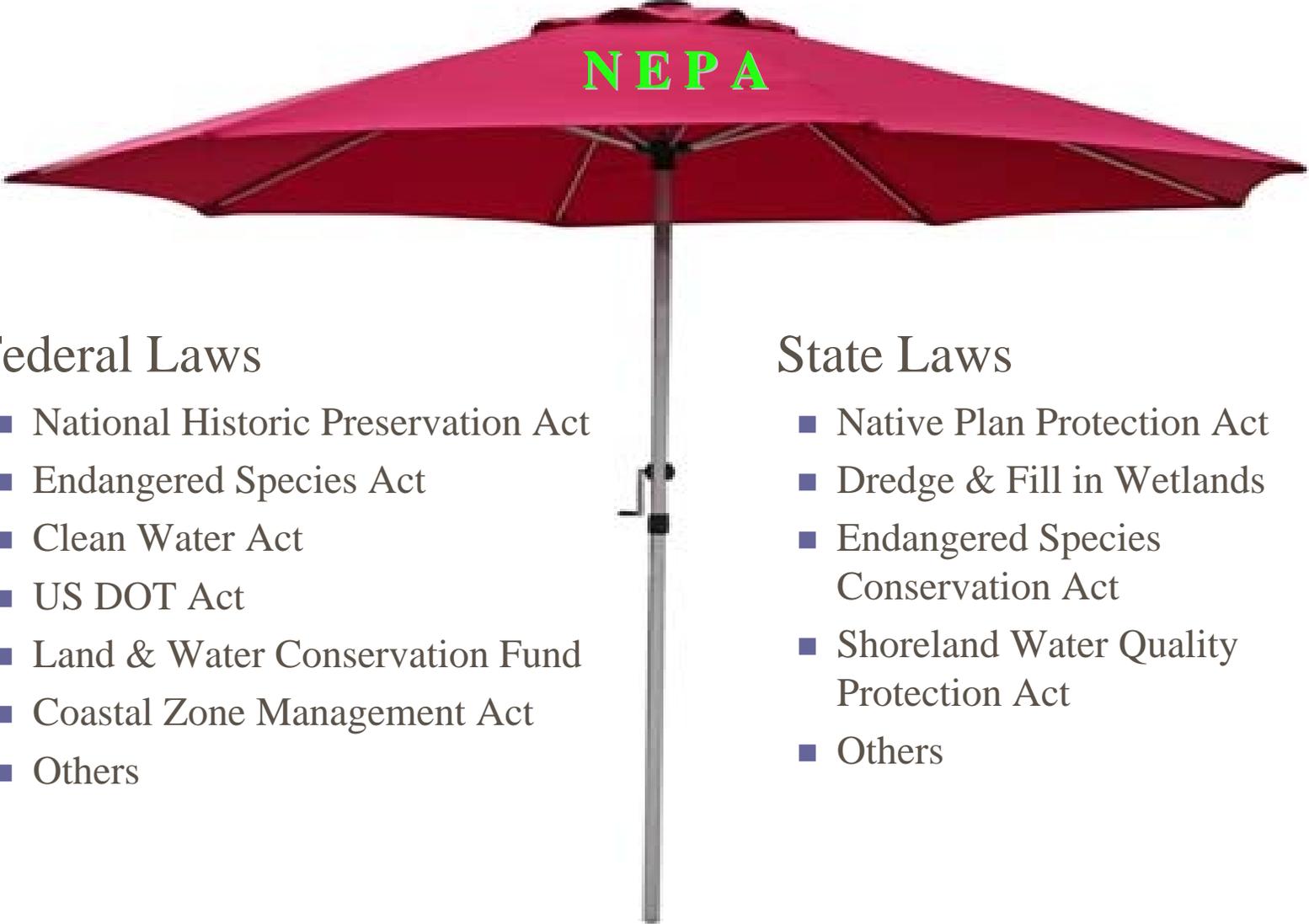
Kevin T. Nyhan
Administrator
Bureau of Environment

(603) 271-3226



Presentation Overview

- What is NEPA?
- Laws, Rules & Regulations
- A NEPA Process
- What is Section 4(f)?
- Environmental Review Timeline



NEPA

Federal Laws

- National Historic Preservation Act
- Endangered Species Act
- Clean Water Act
- US DOT Act
- Land & Water Conservation Fund
- Coastal Zone Management Act
- Others

State Laws

- Native Plan Protection Act
- Dredge & Fill in Wetlands
- Endangered Species Conservation Act
- Shoreland Water Quality Protection Act
- Others



What is NEPA?

- Environmental review does not supercede the need to obtain other permits, etc. (i.e. Wetlands Bureau, Corps of Engineers, Coast Guard, etc.), which are the responsibility of the project sponsor.
- SRTS Non-Infrastructure Projects do **NOT** require individual review since they do not lead to construction or require construction



A NEPA Process...

- Interdisciplinary approach
- Stepwise process
 - Identify the Purpose and Need
 - Contacting affected groups
 - Identifying the resources
 - Involving the public and other stakeholders
 - Environmental documentation
 - Purpose and Need
 - Alternatives
 - Expected impacts after minimization
 - Mitigation, if needed



Identify the Purpose and Need

- What are the major conditions that need to be changed.
- List major objectives (purpose) for each identified need
- Link your analysis (documentation) and the final decision (FHWA classification) to achievement of objectives and resolution of environmental issues



Identify the Purpose and Need

- Project Purpose and Need
 - The purpose of this project is...
 - The need for this project is demonstrated by...
- The purpose is NOT the proposed action
 - The purpose of this project is to replace the bridge... **(WRONG)**
 - The purpose of this project is to correct structural deficiencies associated with a red list bridge... **(RIGHT)**

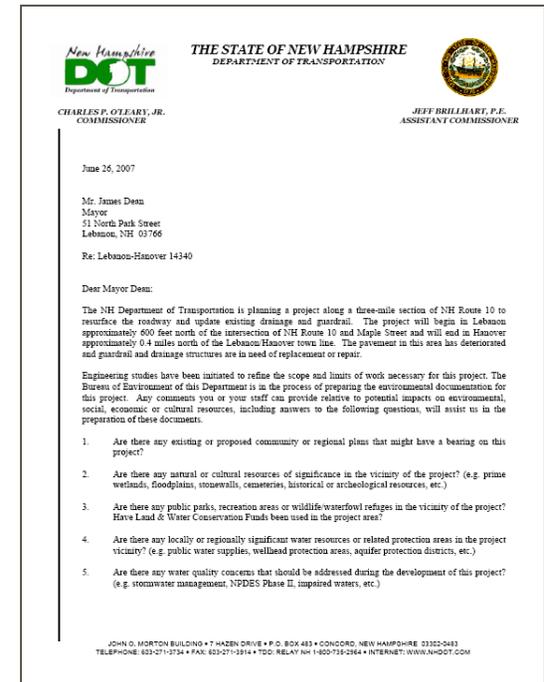


Tying Purpose & Need to Proposed Action

- The **purpose** of this project is to remove a structurally deficient bridge from the NHDOT Red List and increase safety of the traveling public.
- The **need** for this project is demonstrated by the structurally deteriorated condition of the bridge deck and structural steel (FSR 18/100), poor site distance, high frequency of flooding at the bridge, and substandard approach guardrail
- The **proposed action** consists of the replacement of the bridge that carries NH Route X over the Y River, with associated approach work.

Contacting Affected Groups

- Send letters to:
 - Local Officials
 - State and Federal Officials responsible for resources
 - Others as appropriate



Identifying (known) resources

- On-line Tools
 - Natural Heritage Bureau
 - US Fish & Wildlife Service
 - GRANIT
 - NHDES OneStop
 - FIRMETTE
 - Local ordinances
- May require coordination with other resource agencies



Identifying (known) resources

- Environmental Justice
 - Minority Populations
 - Low Income Populations
 - US Census Block Data
 - Consult with NHDOT in most cases
- Section 6(f) Properties
 - Land & Water Conservation Fund
 - DRED (State liaison)



Identifying (potential) resources

- Wetlands
 - CWS
- Rivers/streams
- Shoreland
- Invasive species
- Stream crossings



Identifying (potential) resources

- Cultural resources
 - Archaeology/History
 - NHDHR (SHPO)
 - RPR Form
 - Section 106 NHPA
 - Forms
 - Project Area
 - District Area
 - Individual

Please mail the completed form and required material to:
New Hampshire Division of Historical Resources **RECEIVED**
State Historic Preservation Office
Attention: Review & Compliance
19 Pillsbury Street, Concord, NH 03301-9370
MAY 1 6 2011

SHPO File # 2940
SAC # S. B. H.
Log File # S. B. H.
Regional Rep. S. B. H.
Director S. B. H.

**Request for Project Review by the
New Hampshire Division of Historical Resources**

This Project is funded by the American Recovery and Reinvestment Act of 2009
 This is a new submission This is additional information relating to DHR Review #:

GENERAL PROJECT INFORMATION

Project Title: Lebanon *Replace Culvert from Dublin Rd to*
Project Location: NH Route 10 in Lebanon.
Tax Map & Lot #: N/A
SHPO State Project: *Plan Geographic Coordinates: Starting: ... Ending: ...*
Lead Federal Agency FFWA: *Permit or Job Reference # X-A000906*
State Agency and Contact (if applicable) NHDOT *Permit or Job Reference # 15717*

APPLICANT INFORMATION

Applicant Name: NHDOT
Street Address: 7 Hazen Dr Phone Number:
City: Concord State: NH Zip: 03302 Email:
CONTACT PERSON TO RECEIVE RESPONSE:
Name/Company: Kevin T. Nyhan
Street Address: Phone Number: 271-1553
City: State: Zip: Email: knyhan@dot.state.nh.us

Please refer to the Request for Project Review manual for directions on completing this form. Submit one copy of this project review form for each project for which review is requested. Include a self-addressed stamped envelope to expedite review response. Project valuations will not be accepted via facsimile or e-mail. This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only contain confidential information. For some projects, the Division of Historical Resources (DHR) may require additional information to complete our review. All items and supporting documentation submitted with a review request, including photographs and publications, must be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process, please visit our website at: <http://www.nh.gov/shpo/review> or contact the RAC Specialist at 603.271.5558.



Identifying (potential) resources

- Air Quality Considerations (qualitative)
 - All projects
 - Sidewalks and crosswalks typically exempt (unless they involve signal installation/ alteration)
- Air Quality Analysis (quantitative)
 - Installation/ adjustment of traffic signals
 - Intersection reconfiguration
- Contact BOE prior to:
 - Any project in Manchester or Nashua
 - Any project listed as “Regionally Significant in the STIP.



Identifying (potential) resources

- Noise Considerations (qualitative)
 - All projects
 - Sidewalks and crosswalks typically exempt
- Noise Analysis (quantitative)
 - Construction of a new highway
 - Substantial alteration to vertical or horizontal alignment
 - Addition of through lanes



Special Contamination Issues

- Sources of contamination for all projects
 - Adjacent sites listed with DES – UIC, LUST, GMP, AUR, Landfills, Laundromats, Spills/releases (OneStop)
 - Visual evidence of contamination
 - Stained soils
 - Stressed vegetation
 - Monitoring wells
 - Suspected sources of contamination
 - Manufactured gas plants
 - Urban fill
 - Railroads
 - **People in hazmat suits**



Special Contamination Issues

- Sources of contamination for all projects (cont.)
 - Asbestos Containing Materials (ACM)
 - Bridges constructed between 1958 and 1978
 - Mastic
 - Pavement
 - Membrane
 - Transite pipe
 - Any project in Nashua or Hudson
 - Lead Paint
 - Manifests
 - Handling, Transportation, Disposal



Evaluating Alternatives

- Proposed Action
- Alternatives Considered
 - **No Build**
 - Reduce/avoid impacts
 - Rehabilitation (bridges)
- All alternatives should relate back to Purpose and Need



Involving the public

- Public Officials Meetings
- Public Informational Meetings
- Public Hearings
- Resource Agency Meetings





NHDOT Monthly Resource Agency Meetings

- NHDOT Natural Resource Agency Meeting
 - 3rd Wednesday of Each Month
 - Contact Christine Perron
- NHDOT Cultural Resource Agency Meeting
 - 1st & 2nd Thursday of Each Month
 - Contact Jill Edelmann

Natural Resource Agency Meetings

- Schedule when:
 - Initial Review
 - Alternatives Analysis
 - Environmental impacts
 - Wetlands
 - Floodplains
 - Other resource impacts
 - **May not be necessary if natural resource impacts are not anticipated**



Cultural Resource Agency Meetings

- Agencies Represented
 - NHDHR
 - FHWA (Lead Agency)
 - Consulting Parties
- Laws/rules
 - RSA 227-C
 - Section 106 NHPA
 - Section 4(f)



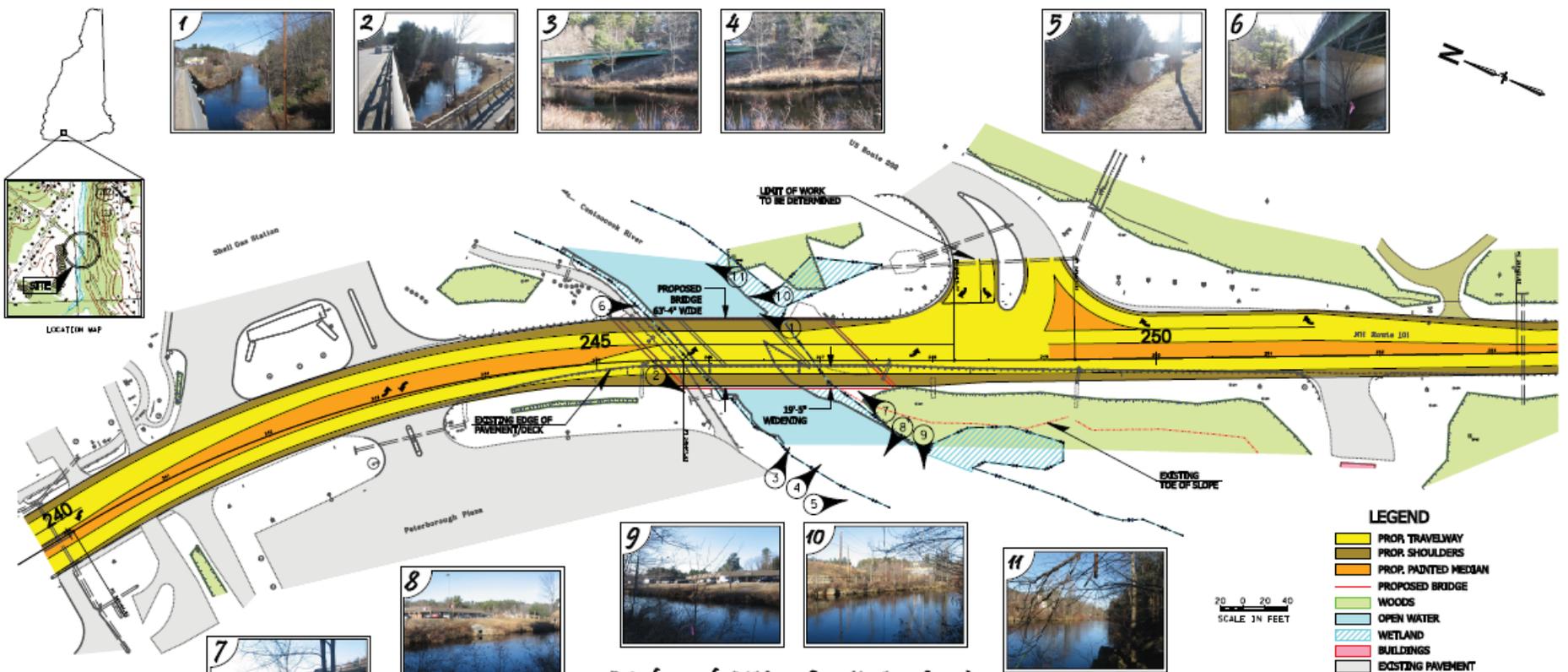
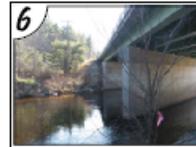
"Everyone here? Good. Meeting topic: Setting world record for shortest meeting. All in favor say aye. Ayes have it. Meeting over."



Cultural Resource Agency Meetings

■ Process

- Request for Project Review (RPR) Form
- Determine Area of Potential Effect (APE)
- Project Effects
 - *No Historic Properties Affected*
 - *No Adverse Affect*
 - *Adverse Affect*
- May require historic/archaeological surveys
- Adverse effects require mitigation
- FHWA decision w/SHPO concurrence



LEGEND

- PROP. TRAVELWAY
- PROP. SHOULDERS
- PROP. PAINTED MEDIAN
- PROPOSED BRIDGE
- WOODS
- OPEN WATER
- WETLAND
- BUILDINGS
- EXISTING PAVEMENT

20 0 20 40
SCALE 1" = 40 FEET



Peterborough, NH - 15879 X-A001(007)
US 202 and NH 101 Over The Contoocook River - Bridge Rehabilitation
 Natural Resources Meeting - April 18, 2012



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NEPA Documentation Options

- Environmental Impact Statement (EIS)
(Class I)
- Environmental Assessment (EA) (Class III)
- Categorical Exclusion (CE) (Class II)
 - **Individual CE (25%)**
 - **CE Programmatic Determination Checklist**
(The Checklist) (75%)

Programmatic Categorical Exclusions (Programmatic CE)

- Projects with demonstrated history of **not** having **significant** environmental impact
- Stepwise Process – applies to all categories of NEPA action!



Programmatic CE

■ Project Description



State of New Hampshire – Department of Transportation

CATEGORICAL EXCLUSION PROGRAMMATIC DETERMINATION CHECKLIST

Action/Project Name: CITY
Federal Project Number: X-A001(###)

State Project Number: #####
CE Action Number: #

Description of Project (Attach Location Map, As Appropriate):

DETAILED DESCRIPTION SHOULD INCLUDE:

- 1) PROJECT LIMITS,**
- 2) PROJECT LOCATION,**
- 3) PURPOSE AND NEED,**
- 4) DESIGN PARAMETERS,**
- 5) ANY OTHER SPECIAL CONSIDERATIONS.**

State of New Hampshire – Department of Transportation
**CATEGORICAL EXCLUSION
PROGRAMMATIC DETERMINATION CHECKLIST**

Action/Project Name: _____ State Project Number: _____
Federal Project Number: _____ CE Action Number: _____
(See page 15.)

Description of Project (Attach Location Map, As Appropriate):

PROGRAMMATIC CATEGORICAL EXCLUSION (CE) CRITERIA¹

- | | NO | YES | |
|--|-------------------------------------|--------------------------|------------------------------------|
| 1a Air Quality – Is the proposed action a non-CMAQ project requiring a conformity... determination? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | If yes, then... See Sec. 1, page 6 |
| 1b Air Quality – Does the proposed action require an 8-hour CO analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 1, page 6 |
| 2 Cultural Resources – Does the proposed action have an adverse effect on properties eligible for or listed in the National Register of Historic Places? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 2, page 6 |
| 3 Endangered Species – Does the proposed action affect species and critical habitat of species protected by the Endangered Species Act, as determined through consultation with USF&WS, NHF&G, and/or NHH&B, as appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 3, page 7 |
| 4 Floodways – Does the proposed action <u>encroach</u> on the regulatory floodway of water courses or water bodies? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 4, page 7 |
| 5 Noise – Is the proposed action a Type I highway project? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 5, page 8 |
| 6a Right-of-Way – Does the proposed action require the acquisition of residences or businesses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 6, page 8 |
| 6b Right-of-Way – Does the proposed action require fee simple acquisition or permanent easements to an extent that impairs the functions of the affected properties? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 6, page 8 |
| 7 Section 4(f) – Does the proposed action require the use of any property protected by Section 4(f) of the 1968 USDOT Act, other than that for which a de minimis impact finding has been made? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 7, page 8 |
| 8 Section 6(f) – Does the proposed action require the use of any property protected by Section 6(f) of the L&WCF Act? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 8, page 9 |
| 9 Water Quality – Does the proposed action have more than a negligible impact on surface waters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 9, page 9 |
| 10 Wetlands – Does the proposed action require an Army Corps of Engineers Individual Permit? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See Sec. 10, page 9 |
| 11 Other – Do any of the above conclusions benefit from more detailed explanation or are there other issues of concern? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | See attached |

¹ If the answer to all of the above questions is NO, the proposed action qualifies for classification as a Programmatic Categorical Exclusion. The Checklist should be completed (page 2, and page 3 when appropriate) and included in the Classification Determination.

² If the answer to any of the above questions is YES, the proposed action does not qualify for classification as a Programmatic Categorical Exclusion. In such cases, if the impact(s)/effect(s) leading to the disqualification are not significant, the proposed action may be processed as an individual CE and the remainder of this form (beginning on page 4) should be filled out as appropriate.

¹ See Detailed Instructions for further explanations of the questions and documentation requirements.

State of New Hampshire – Department of Transportation

ENVIRONMENTAL COMMITMENTS²

CLASSIFICATION DETERMINATION

- The proposed action qualifies for a Programmatic Categorical Exclusion.
- The proposed action does not qualify for a Programmatic Categorical Exclusion.

Prepared by: _____ Date _____
Project Environmental Coordinator

Approval Recommended By: _____ Date _____
Section Chief

Approved by: _____ Date _____
Administrator, Bureau of Environment

Note: Post-hearing follow-up actions, and their disposition, are indicated on the next page.

² Attach letters, memos, forms, etc., as appropriate.

Programmatic CE

- Environmental Commitments
 - Items needing follow up after approval of NEPA
 - Successful implementation
 - Applies to all categories of action

State of New Hampshire – Department of Transportation

ENVIRONMENTAL COMMITMENTS²

CLASSIFICATION DETERMINATION

The proposed action qualifies for a Programmatic Categorical Exclusion.

The proposed action does not qualify for a Programmatic Categorical Exclusion.

Prepared by: _____ Date _____
Project Environmental Coordinator

Approval Recommended By: _____ Date _____
Section Chief

Approved by: _____ Date _____
Administrator, Bureau of Environment

Note: Post-hearing follow-up actions, if any, and their disposition, are indicated on the next page.

² Attach letters, memos, forms, etc., as appropriate.

2

March 2000
Revised January 2005
Revised January 2006

Programmatic CE

- Detailed Discussion
 - Additional information
 - Demonstrates understanding of issues
 - Allows NHDOT/FHWA to complete approval process

DETAILED DISCUSSION OF PROGRAMMATIC CE CRITERIA

1a & 1b. Air Quality – Is the proposed action a non-CMAQ project requiring a conformity determination? A conformity determination is not required as this project is consistent with the projects listed in Table 2 of 40 CFR 93.126.

2. Cultural Resources – Does the proposed action have an adverse effect on properties eligible for or listed in the National Register of Historic Places? **No.** The project was determined to have [effect] on historic resources. Detail any stipulations conditioning the effect memo from SHPO.

3. Endangered Species – Does the proposed action affect species and critical habitat of species protected by the Endangered Species Act, as determined through consultation with USF&WS, NHF&G, and/or NHHB, as appropriate? **The work will not affect species and/or critical habitat of species protected by the Endangered Species Act, as no work will be completed within waterways, wetlands or require removal of vegetation.**

4. Floodways – Does the proposed action encroach on the regulatory floodway of water courses or water bodies? **No. No work will be completed within wetlands or waterways.**

5. Noise – Is the proposed action a Type I highway project? **No.**

6a & 6b. Right-of-Way – Does the proposed action require the acquisition of residences or businesses? **No.**

7. Section 4(f) – Does the proposed action require the use of any property protected by Section 4(f) of the 1966 USDOT Act, other than that for which a de minimis impact finding has been made? **No.** There will be no easements or acquisitions from property considered historic, publicly-owned public parks, or fish and wildlife refuges.

8. Section 6(f) – Does the proposed action require the use of any property protected by Section 6(f) of the L&WCF Act? **No.** Based on coordination with the Department of Resources and Economic Development there will be no Section 6(f) properties impacted, either permanently or temporarily, during construction.

9. Water Quality – Does the proposed action have more than a negligible impact on surface waters? **No.** There are no waterbodies within 1 mile of the project area listed on the 303(d) list as available through the Department of Environmental Services website. OR

The project area lies within one mile of an impaired water as listed with the Department of Environmental Services. However, the proposed project will not further impair the area for the listed pollutants.

10. Wetlands – Does the proposed action require an Army Corps of Engineers Individual Permit? **No.** There will be no surface waters or wetlands impacted by the construction of this project.

11. Other – Do any of the above conclusions benefit from more detailed explanation or are there other issues of concern? **No.**

Programmatic CE

- Attachments/ Back up
 - Location map
 - Section 106 memo
 - NHNHB memo
 - USF&WS memo
 - FIRMETTE and/or NHOEP memo
 - Section 6(f) memo
 - Contamination review
 - Photographs
 - Plans

State of New Hampshire – Department of Transportation

Exhibits

Exhibit 1 – Location Map
Exhibit 2 – USGS Topographic Map
Exhibit 3 – Traffic Data
Exhibit 4 – No Adverse Effect Memo
Exhibit 5 – NH Natural Heritage Bureau Memo
Exhibit 6 – NH Natural Heritage Bureau correspondence
Exhibit 7 – NH Division of Parks and Recreation Memo
Exhibit 8 – Surface Water Impairments
Exhibit 9 – Conservation Land Stewardship Program correspondence
Exhibit 10 – Land & Water Conservation Fund correspondence
Exhibit 11 – Office of Energy & Planning correspondence
Exhibit 12 – White Mountain National Forest correspondence
Exhibit 13 – Pemigewasset River Local Advisory Committee correspondence
Exhibit 14 – Conference Report – Dept of Resources & Economic Development
Exhibit 15 – Meeting Reports – White Mountain Environment Committee
Exhibit 16 – 1983 Memorandum of Agreement Cover Sheet
Exhibit 17 – Photographs
Photo A – Franconia Notch State Park sign on southbound barrel
Photo B – Typical metal pipe and MRM header
Photo C – Typical MRM wingwalls
Photo D – Stone retaining wall along Pemigewasset River
Photo E – Stone dam
Photo F – Stone retaining wall along southbound barrel (view S) and bike path/snowmobile trail adjacent to Echo Lake
Photo G – Computer rendering of proposed 3-foot snow fence at Echo Lake
Photo H – Typical two lane section of the Parkway (view N)
Photo I – Existing three beam median guardrail in typical two lane section (view N)
Photo J – Existing three beam median guardrail in typical two lane section (view N)
Photo K – Typical condition of existing three beam median guardrail
Photo L – Computer rendering of proposed NuGuard-31 median guardrail
Photo M – Existing curb and catch basin
Photo N – Computer rendering of proposed shoulder without curb
Photo O – Location of proposed chain link snow fence (view N)
Photo P – Existing chain link snow fence

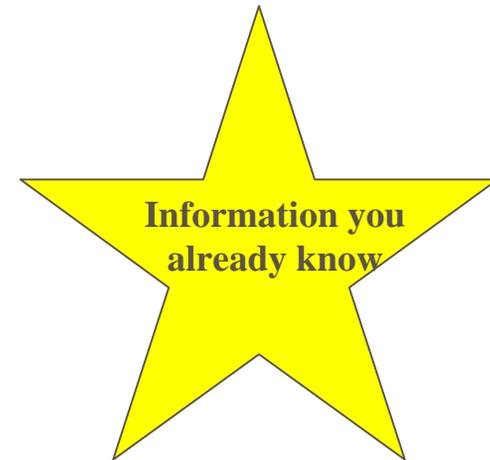


Projects that cannot be a Programmatic CE

- Modernization of a highway by **reconstruction, adding shoulders or adding auxiliary lanes** (e.g. parking, weaving, turning, climbing)
- **Bridge reconstruction, replacement** or the construction of grade separated rail crossings
- Transportation corridor fringe parking facilities
- Construction of new truck weigh stations or rest areas
- **MAP-21 WILL EVENTUALLY CHANGE THIS**

Individual/Non-Programmatic CE

- Proposed Action ★
- Purpose and Need ★
- Alternatives ★
- Affected Resources ★
 - Description
 - Impacts
- Mitigation
- Environmental Commitments



Categorical Exclusion

- Impact Analysis
 - Avoidance – Alternative selection
 - Minimization – Variations on selected alternative
 - Mitigation – Additional actions to offset unavoidable impacts





Categorical Exclusion

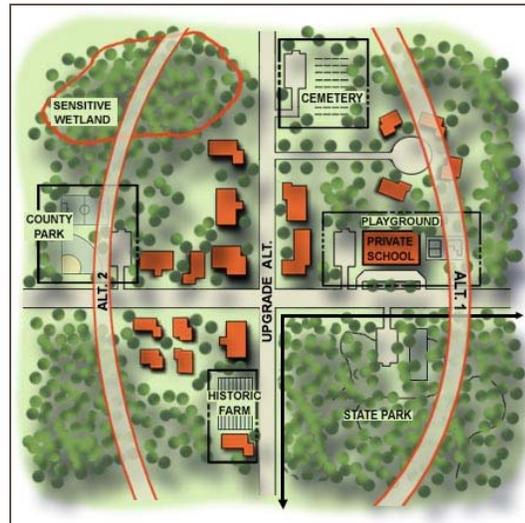
- Environmental Commitments
 - Successful implementation is a requirement.
 - Tracking
 - “SHALL,” not “should” or “will”
 - Made by resource agencies or NHDOT

“Prior to the commencement of construction related activities, the contractor responsible for the work shall implement a Storm Water Pollution Prevention Plan (SWPPP).”

“All work in front of the cemetery, exclusive of work within the footprint of the existing roadway shall be monitored by an archaeologist with experience recovering historic burials.”

Section 4(f) Evaluations

- *Work with NHDOT Bureau of Environment*



Section 4(f) Evaluations

- < 5% of LPA Projects
- Resources
 - Publicly Owned Public Parks and Recreation Areas
 - Fish & Waterfowl/wildlife Refuges
 - National Register Listed/eligible Historic Properties



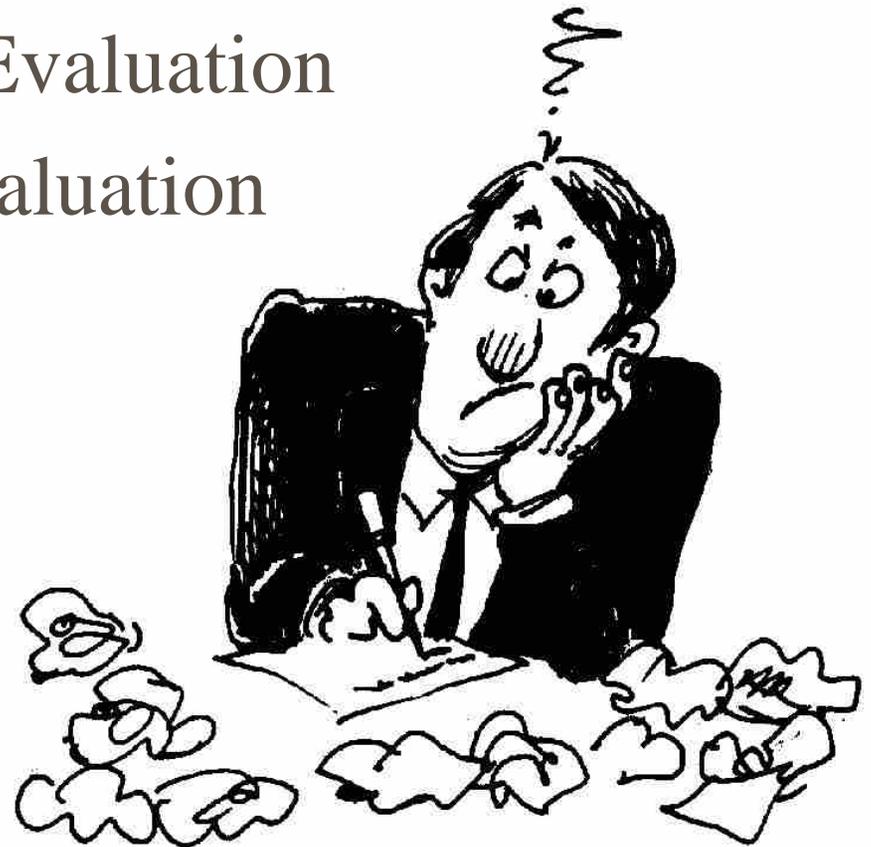
Section 4(f) Evaluations

- Feasible and Prudent
- Avoidance Alternative
- Least Overall Harm
- Officials with Jurisdiction



Types of Section 4(f) Evaluations

- *De minimis* impact finding
- Programmatic 4(f) Evaluation
- Full Section 4(f) Evaluation



NEPA/Section 4(f) Processing

- Initial draft review (PDF) (1-2 weeks)
- Final to Ronald Crickard (c.c. DOT PM)
 - 4 Copies
 - Full 4(f):
 - Draft: 17 Copies (1 hard copy, 16 electronic (CD))
 - Final: 12 Copies (1 hard copy, 11 electronic (CD))



Classification and NEPA Completion

- Classification
 - In house (Prog. CE)
 - By FHWA (CE)
- Environmental Commitments Memo

STATE OF NEW HAMPSHIRE
INTER-DEPARTMENT COMMUNICATION

DATE September 17, 2007
AT (OFFICE) Department of Transportation

FROM Charles H. Hood
Acting Administrator

SUBJECT PORTSMOUTH
X-8000(368)
14428
(Market Street Extension/ Bike-Ped Route)

TO Ram Maddali, P.E.
Project Manager
Bureau of Planning and Community Assistance

Bureau of Environment

Enclosed is a copy of the environmental document prepared for the subject project by the City of Portsmouth.

In accordance with the Agreement executed by the Department and the Federal Highway Administration (FHWA), the subject project has been determined to meet the criteria for processing as a Programmatic Categorical Exclusion (08/17/07). This determination represents design approval. This project does not require a public hearing; therefore, this concludes the NEPA process.

This project is exempt from FHWA oversight.

A NH Wetlands Bureau (NHWB) permit is required for this project. An application has been submitted to the NHWB. This project will not require a US Army Corps of Engineers permit.

Environmental commitments have been made, as noted on page 2 of the environmental document. It is the responsibility of the City to assure that environmental commitments are implemented as intended. It is expected that appropriate stormwater pollution prevention measures will be implemented in the field, as necessary. This is particularly important where wetlands and/or other water resources lie adjacent to construction zones.

Please be advised, if project changes occur this bureau should be consulted to determine if a follow-up review of environmental impacts is required.

CHH:jtn

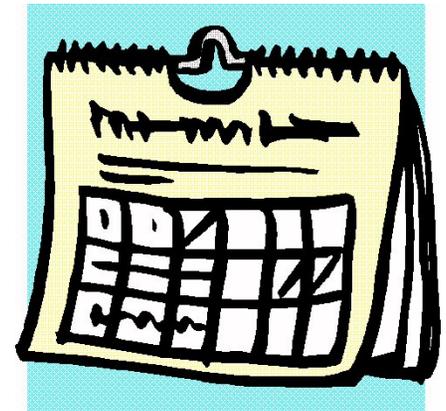
Encl.

c.c. D Deporter (w/Encl.)
City of Portsmouth, through R. Maddali (w/Encl.)
C. Schmidt (via Email)
Project Programming (via Email)
FHWA (via Email)

s:\open\dmgr\14428\comm\3.doc

Classification Timetable

- Programmatic CE: 1-2 Weeks
- Non-Programmatic CE: 2-3 Weeks
(Requires review and approval by FHWA)
 - Programmatic 4(f): 3-4 Weeks
 - Full 4(f): 14-16 Weeks (DOI review)





Take Home Messages

- Early Coordination
- Bureau of Environment is available to assist you
- Understand your project before setting scope and fee
 - Consider alternatives – don't pre-decide
 - Consider the issues/constraints
 - Is it likely a Programmatic CE or Individual CE?



Take Home Messages

- NEPA is conducted as part of PRELIMINARY DESIGN
 - Cannot move to final design until NEPA is approved by FHWA
 - For Programmatic CEs, NHDOT has FHWA authority to approve NEPA
- NEPA process takes time

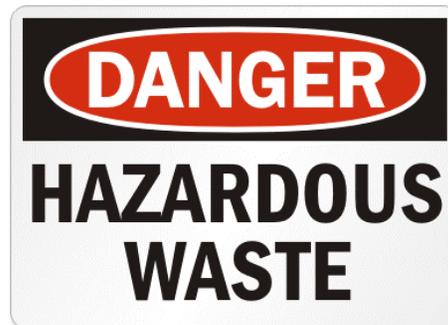
Take Home Messages

- NHDES Stream Crossing Rules
 - Bridge and culvert projects
 - “Compliant” designs ($(1.2 \times B_{fw}) + 2'$)
 - Alternative designs



Take Home Messages

- Special Contamination Issues
 - The presence of contamination does not typically change project classification
 - Requires provisions in the contract documents, if impacted
 - Bureau of Environment can provide guidance





Take Home Messages

- Environmental Commitments
 - Successful implementation is required
 - Track them before and during construction



Take Home Messages

- Plan for potential expenses
 - Archaeological surveys
 - Historic surveys
 - Endangered Species/Habitat surveys
 - Air/Noise analyses
 - Stream crossing rules
 - Contamination surveys





Take Home Messages

- MAP-21

- New Categorical Exclusions for:

- Emergencies – roads, highways, bridges (same location)
 - Projects w/in the ROW
 - Projects with limited Federal assistance
 - > \$5M
 - Project > \$30M, and Fed funds comprise less than 15%

Questions?

