

PS-P&N Training Outline

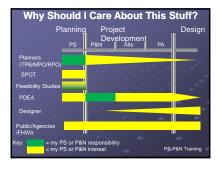
- PS Basics- why, what, who, when, how
- P&N Basics- why, what, who, when, how
- Crafting a PS or P&N
- 🌢 Wrap Up

Who Supports This Initiative?
Interagency Leadership Team (ILT)
•NCDOT
•FHWA
•USACOE
•DENR
•USFWS
•EPA
National Marine Fisheries Service
•Dept. of Commerce
•Dept. of Cultural Resources
•NC WRC
PS-P&N Training

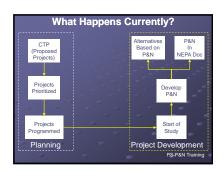


PS-P&N Relation to Other Initiatives

- Integration
 Effort to improve the linkage of long range planning to project development
- Streamlining
 Effort to examine the Merger process to determine how it can be conducted more efficiently
- PS-P&N Training







CTP			
(Proposed Projects with PS)		Alternative Based or P&N	
Projects Prioritized			PS refined into
			P&N
Projects Programmed	Project Initiation		Start of Study
Planning	Transitio	n Project	Development

PS Basics

🚛 , what, who, when, how

SAFETEA-LU: Statewide Transportation Planning and Metropolitan Transportation Planning (23 USC Section 134, 135) Appendix A of 23 CFR Part 450: Linking the Transportation Planning and NEPA Processes

Environment and Planning Linkage Processes Legal Guidance PS-P&N Training

Components of a Full PS

CTP Project Proposal

- Multi-modal Considerations - Public/ Stakeholder Involvement

PS-P&N Training

	PS B	asics		
@ Why				
What				
# Who				
When				i di
How				2
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			PS-P&	N Training

PS Basics Y, what, who, when, how

4 23 CFR 450.212, .318, & Appendix A "The results or decisions of these transportation planning studies may be used as part of the overall project development process consistent with NEPA..." - P&N or goals & objective statements - General travel corridor and/ or mode(s) definition - Basic description of environmental setting Preliminary identification of environmental impacts
 & mitigation PS-P&N Training

Components of a Minimum PS

- Concise description of the problem
 Primary purpose(s) & goal(s) to be accomplished
- Describe the concept of the proposed project
- Briefly, any known supporting information (e.g. other applicable elements from Full PS)

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PS Basics

WHY, what, who, when, how

 Communicate the context, concept and justification for proposed projects (all modes) in a CTP

Intent

Form substantial core of P&N

Save time in preparing and/or agreeing to the purpose and need in project development

PS-P&N Training

PS Basics why, WH AT, who, when, how Full PS Minimum PS PS that References a P&N Underway or Completed PS-P&N Training

PS Referencing P&N Underway Include: Concise description of the primary goals the proposed project is expected to accomplish A reference to the P&N underway

PS Basics

why, WHAT, who, when, how

Criteria for selecting projects for Full PS:

- Time Frame
 5-year Work Program and STIP*
 10-year Work Program
- Closest interim years, project priorities list
 Scope
 major new location, major multi-lane widening,
 - major projects other modes

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why, what, who, when,

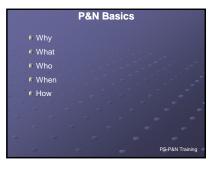
Fransfer & Use

- For CTP: Conceptualize/ document problems & Link problems to proposed solutions
- For prioritization: informs relative needs
- For project initiation: provides PDEA with project information

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For P&N: foundation of P&N

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PS Basics why, what, 100, when, how

 Developed by NCDOT-TPB or MPOs, in consultation with RPOs & municipal/ county staff
 Full PS: TPB will request review by PDEA

Coordinate with Agencies & Public as part of the CTP process

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Why P&N?

National Environmental Policy Act (NEPA) "... To declare a national policy which will encourage productive and enjoyable harmony between man and his environment..."

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PS Basics

why, what, who, WHEN, how

- During CTP development (documented as part of CTP report)
- Upon Request by PDEA (if CTP has less than full PS & for areas TPB has provided planning assistance in the past)

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Questions?

"There's more than one way to look at a problem, and they all may be right" --Norman Schwarzkopf



Why P&N?

NEPA applies to Federal discretionary actions



Why P&N?

CEQ regulations for an EIS require: "The statement shall briefly specify the underlying purpose and need to which the agency is responding in proposing the alternatives including the proposed action." CEQ regulations for an EA require: "Shall include brief discussions of the need for the proposal..."

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What: Primary v. Secondary Purpose To communicate the full range of factors

considered in decision-making: A primary purpose is a "driver" of the project (a fundamental reason for the project)

A secondary purpose ("other desirable outcome") is desirable, but not a core purpose

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Who Develops P&N?

Responsibility rests with the lead Federal agency preparing the NEPA document • For Federal-aid projects, the lead Federal agency is FHWA (NCDOT through Stewardship Agreement)

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What: Need

- Describes key problem(s) & causes
- Provides the factual & quantifiable foundation for the purpose statement
- Establishes evidence of current or future transportation problems or deficiencies
- Establishes and justifies logical termini

Exercise PS or P&N? ive(s) m PP#1 PP#2 ODO#1 ODO#2 Alt 1 Ν Y Y Ν Alt 2 Y Y Ν Alt 3 Ν N Alt 4 Y Y PS-P&N Tra

Who Do We Coordinate With for P&N?

- CEQ regulations: no requirement for agencies/public
- Scoping: forum for agencies/public input
- SAFETEA-LU Section 6002: "opportunity for involvement" for agencies/public

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What: Purpose

- States clearly and succinctly why the project is being proposed
- Presents objectives to address the need

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What: Purpose

- Avoid stating the purpose as a solution:

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"The purpose is to replace the bridge"

Avoid the "kitchen sink" approach

Who Do We Coordinate With for P&N?

- Disagreement between JLA must be resolved
- JLA consider input from agencies/public, but ultimately decide on P&N
 - - PS-P&N Training

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CTP (Proposed Projects)		Alternatives Based on P&N	P&N In NEPA Do	oc
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Projects Programmed			tart of Study	
Planning	F	Project De	velopmer	ht

	P&N Re	eview		
Why				
What				
Who				
When				
How				
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Who Do We Coordinate With for P&N? other Federal agencies other Federal agencies "should only raise questions regarding our P&N statements when those questions relate to substantive or procedural problems (including omission of factors) important to that agency's independent legal responsibilities." • orandum 184 A lagrange of function in the second 5--engel a posse poi ser descrito a ord e forcer any basis (125 e for pos des for posterior de for for d'agrecio, en de posterior agreco, e Colora Inglore Coli - Inglore No Anno 1997 PS-P&N Training

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PS-P&N: What's In It For Me?

- Local Planner (MPO/RPO)
- NCDOT TPB
- Funding Decision-makers
- NCDOT Project Manager
- Agency

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Who Do We Coordinate With for P&N?

The Merger process calls for "concurrence" by all agencies represented on individual project teams at various environmental milestones (with P&N being the first milestone)

"Concurrence" is defined as: "I do not object to the proposed action based on the laws and regulations of my program and agency."

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How is P&N used?

- Avoid an ill-conceived project
 Share understanding of the problems
 Define a project's scope
 Guide development & evaluation of alternatives
 Allow decisions to be legally defensible
 Justify impacts and spending of funds



So What's The Difference?

Data: possible differences in level of detail

- Public/ Agency Involvement: only required for P&N for EIS, no formal agreement or concurrence on PS
- PS contains additional information, particularly the CTP Project Proposal section

Crafting a PS-P&N Statement

Specific Measurable Agreed Realistic Time-bound





Congestion

- TRB: "Travel time in excess of that normally incurred under light or free-flow conditions"
- Wikipedia: "a state of excessive accumulation or overfilling or overcrowding"
- Dictionary.com: "overcrowding, clogging"
- Find a definition for your project!
- If you can't define it, you won't know if you've achieved it! PS-P&N Training

Exercise Assess these PS-P&N Purposes (use the SMART principles)

- The purpose is to reduce congestion
- The purpose is to widen the road
- The purpose is to provide a travel speed of at least 45 mph in the design year

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Congestion

- MPO LRTPTMA CMP
- CTP
 National Guidelines

- State Guidelines/Standards/Policies/Plans
 Highway Capacity Manual
 FHWA NC Division office determinations
- Local government standards/policies/guidelines

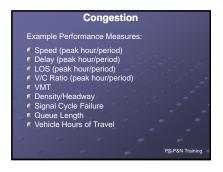
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Questions?

"Always get married early in the morning. That way, if it doesn't work out, you haven't wasted a whole day" --Mickey Rooney

"Always get P&N early in the process. That way, if it doesn't work out, you haven't wasted a couple of years" --unknown





Congestion

Purpose: "To improve the capacity of existing I-240 west of Asheville to accommodate the existing and forecasted (2030 design year) traffic in this growing area."

Performance Criteria: "since the project will be part of the Interstate System, it should be designed to achieve LOS D or better for the type and volumes of traffic anticipated for the twenty-year period beyond the time construction is authorized by FHWA"

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		Desirat State H	ion : "NCDOT P ble Levels of lighway Sys hways in Ul	Service for tem Streets
BEARNIAS .	feozne,	Avg. Speed (suburban)	Avg. Speed (Intermediate)	Avg. Speed (CBD)
2	Primary Freeway	50-60	50-55	45-55
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Safety What is the crash pattern?		
SIDESWIPE AND HEAD-ON CRASHES	RUN OFF ROAD CRASHES	REAR-END CRASHES
DRIVEWAY CRASHES	PARKED/PARKING VEHICLE CRASHES	FIXED OBJECT CRASHES
PEDESTRIAN CRASHES		WET CRASHES
•		PS-P&N Training

Congestion

Rate these examples (Good, Bad, OK)

- The purpose is to widen US 5 to six lanes.
- The purpose is to eliminate congestion on US 5.
- The purpose is to reduce congestion on US 5.
- The purpose is to achieve LOS D on US 5.
- The purpose is to achieve a minimum travel speed of 45 mph in the design year for US 5.



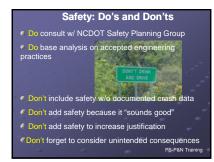
	Safety
Possible Cause	Countermeasure
Slippery Pavement	Overlay existing pavement Provide adequate drainage Groove existing pavement Reduce speed limit "Slippery When Wet" signs
Poor Delineation	Install pavement markings Install roadside delineators Install advance warning signs
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Safety Countermeasure Potential Effectiveness				
	Countermeasure: Install Crash Pattern Affected Total Crashes Total Angle Crashes			
And		PS-P&N Training		



Facility Deficiencies

- Rate these examples (Good, Bad, OK)
- The purpose of this project is to eliminate the "deficient" rating of the bridge.
- The purpose is to replace the bridge.
- The purpose of this project is to achieve minimum acceptable pavement standards.
- The purpose is to bring the roadway geometry up to current design standards.
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Safety Rate these examples (Good, Bad, OK) The purpose is to improve safety on US 5.

- The purpose is to reduce crashes on US 5.
- The purpose is to reduce angle crashes on US 5.
- The purpose is to eliminate crashes on US 5.
- The purpose is to achieve a minimum 20% reduction of crashes on US 5.

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Facility Deficiencies Possible information sources: Pavement Management System Bridge Management System Maintenance Management System Roadway Design Manuals and Guidelines Structure Standards Access Management Policy

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- The purpose is to improve access on I-40.
- The purpose is to increase accessibility to RTP.
- The purpose is to provide transportation access to the proposed business park.

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System Linkage

- The purpose is to link the roadway network with the proposed passenger rail station.
- The purpose is to link the mainland transportation system with the Outer Banks transportation system.

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Access

- Operation and safety is paramount New access points will never improve the operation and safety of the Interstate

Do not propose access as a primary purpose or "other desirable outcome"

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Mobility

What is Mobility?

- Connecting more people and vehicles in less time with their work, school, community services, marketplaces, and each other
- FHWA Planning Glossary: "the ability to move or be moved from place to place"
- Movement of people and goods
- Other?

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Emergency Evacuation

Identify total v. partial evacuation need Don't forget about: Feeder & Receiver routes Disabled vehicles Motorist facilities (gas, restrooms, food, etc.)







Emergency Evacuation

- ate these examples (Good, Bad, OK)
- The purpose is to improve hurricane evacuation.
- The purpose is to achieve the 18-hour standard for hurricane evacuation of Pea Island.
- The purpose is to reduce hurricane evacuation clearance times for Pea Island.
- The purpose is to widen the intersection for hurricane evacuation.

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Mobility

Rate these examples (Good, Bad, OK)

- The purpose is to improve the mobility of freight
- The purpose is to improve the mobility along Corridor X
- The purpose of this project is to improve mobility

The purpose is to improve the mobility of motorized vehicles along Corridor X during the PM peak period

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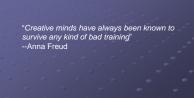
Emergency Evacuation

- When considering as a primary purpose, the following must be documented:
- Adopted emergency evacuation plan
- Location is on an identified evacuation route

Scope addresses all relevant needs for successful evacuation

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Questions?



Possible Purposes			
Transportation	Other Goals/Objectives		
Congestion	C Legislative Intent		
Safety	© Environmental Protection		
Facility Deficiencies	Growth/Economic Development		
Access	National Defense/Security		
System Linkage			
Mobility			
Emergency Evacuat	ion		
· ·	PS-P&N Training		

Legislative Intent

- Congressional example (from SAFETEA-LU) "...Environmental studies and construction of U.S. 74 Monroe Bypass Extension..."
- 74 wonroe Bypass Extension..."
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Legislative Intent

- NC General Assembly examples
- "[to construct a new toll bridge] of more than two miles in length going from the mainland to a peninsula bordering the State of Virginia." (NCGS 136-89.183(a)(2))
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- Legislative Intent
- Who?
- Congress
- State legislatures
- How?

Specific corric

- Special funding
- Mode
- Non-discretionary

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Legislative Intent

Congressional example (HR 105-504) "Trappers Loop connector Road- Provides that actions related to construction of the Trappers Loop connector Road that are undertaken by agencies or entities other than the Forest Service are deemed to be nondiscretionary actions authorized and directed by Congress..."



Legislative Intent

Project-specific legislation does not necessarily determine the project purpose

Lead agency still must exercise judgment in the NEPA process when deciding if and how to incorporate legislative direction into the purpose

 Unless legislative intent exempts FHWA from compliance with relevant laws (e.g. NEPA), legislative intent cannot be used as the sole reason for directing decisions on the project

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Legislative Intent Congressional example (REAL ID Act of 2005) "...the Secretary of Homeland Security shall have the authority to waive, and shall waive, all laws such Secretary, in such Secretary's sole discretion, determines necessary to ensure expeditious construction of the barriers and roads under this section..."



Environmental Protection

 P&N should focus on the underlying reasons based on meeting a transportation need
 How the project is carried out (avoiding/ minimizing impacts) is distinct from the P&N



Environmental Protection

"EO 13274 Task Force on Purpose and Need":

"for the bulk of transportation projects, most staff across Federal agencies agreed that either environmental protection and community enhancement are important goals, these issues should not be a part of the purpose and need statement itself."

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Environmental Protection

Protected Living Marine Resources Program "The USCG proposes this action to aid in the fulfillment of its missions, including protection of the environment, while fulfilling USCG obligations to protect listed species"



Growth/Economic Development

Example Original Purpose language: "The Park's primary purpose and need is to provide the Piedmont Triad with a new biotechnology employment sector to replace jobs eliminated by tobacco and textile manufacturing"





Environmental Protection

- Rate these examples (Good, Bad, OK)
- The purpose is to protect the environment.
- The purpose is to reduce environmental impacts from US 5.
- The purpose is to protect habitat for the dwarf wedgemussel for impacts to the species associated with future Federal-aid highway projects.
- The purpose is to mitigate for environmental
 impacts
 BS-PRN



Growth/Economic Development P&N should focus on the underlying reasons based on meeting a transportation need A desired outcome of a transportation project can be the facilitation of growth





connectivity, north-south traffic capacity and access to property between Stadium Drive and Third Street near the downtown Winston-Salem



Growth/Economic Development

- The purpose of the project is to promote growth/land use.
- The purpose is to provide needed transportation infrastructure to support community growth objectives as identified in
- [title of a plan].
- The purpose is to provide needed transportation infrastructure to support community growth objectives for the US 5
- corridor, as identified in [title of a plan]. PS-P&N Training



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National Defense/Security

The DOD eliminated public access to Beulah Street and Woodlawn Road within Fort Belvoir following events of 9.11.01

"The purpose...Is to replace the once-public access provided by VA Route 618 (Woodlawn Road) and VA Route 613 (Beulah Street) between U.S. Route 1 and VA Route 611 (Telegraph Road)...The project purpose is to offer replacement connectivity compatible with force protection concerns."

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National Defense/Security Ensure the defense readiness capability of public highway infrastructure and establish policy on how





So Which One(s) Do I Pick?

- Understand how the project was conceived
- Develop a range of potential purposes
 Analyze each potential purpose to determine if there is a well-defined and well-supported need Choose one:
- primary purpose"other desirable outcome"
- do not include
- Note: there needs to be at least one primary purpose and all it takes to justify a project is one primary purpose







Summary/ Wrap- Up

Connecting PS and P&N What's My Role?

Learning Outcomes Review

P§-P&N Trair