

## APPENDIX A – Previously Implemented Actions – CE #1

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
<b>Projects with Survey Respondents</b>			
Historic Facilities BMP Retrofit <i>Lake Tahoe Basin Management Unit</i>	Environmental Assessment May 2014	DN / FONSI October 6, 2014	Appendix A: Project Design Features Appendix B: Best Management Practices
Airbase Expansion at Prescott Fire Center <i>Prescott NF<sup>1</sup></i>	Environmental Assessment February 2012	DN / FONSI February 28, 2012	
Crescent Ranger District Administrative Site <i>Crescent RD<sup>2</sup> Deschutes NF</i>	Environmental Assessment April 2012	DN / FONSI April 4, 2012	
Flat Creek Buildings Disposition <i>Middle Fork RD Willamette NF</i>	Environmental Assessment December 2012	DN / FONSI April 2, 2013	
Bessey Complex Drainage, Warehouse, Greenhouse Construction <i>Bessey RD Nebraska NF</i>	Environmental Assessment March 2012	DN / FONSI March 9, 2012	
Deer River Tree Cooler <i>Deer River RD Chippewa NF</i>	Environmental Assessment June 2012	DN / FONSI March 28, 2013	
Enoree Range District Office Renovation Project <i>Enoree RD Francis Marion and Sumter NFs</i>	Environmental Assessment January 10, 2013	DN / FONSI January 16, 2013	Biological Assessment/Evaluation, August 2012

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<sup>1</sup> National Forest

<sup>2</sup> Ranger District

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Duchesne Bunkhouse <i>Duchesne RD</i> <i>Ashley NF</i>	Environmental Assessment September 2012	DN / FONSI September 27, 2012	
Interagency Natural Resource Center <i>Idaho Panhandle NF</i>	Environmental Assessment June 2016	DN / FONSI August 30, 2016	
Nez Perce-Clearwater National Forest Roadside, Recreation Site, and Administrative Site Maintenance Project <i>Nez Perce-Clearwater NFs</i>	Environmental Assessment June 2016	DN / FONSI August 17, 2016	
Grand Mesa Winter Recreation Improvements <i>Grand Valley RD</i> <i>Grand Mesa, Uncompahgre, and Gunnison NFs</i>	Environmental Assessment December 2011	DN / FONSI December 27, 2011	
Horn Mountain Communication Tower <i>Talladeg RD</i> <i>NFs in Alabama</i>	Environmental Assessment September 2014	DN / FONSI December 5, 2014	Memorandum of Agreement, July 2014
<b>Other Projects Reviewed</b>			
Supervisor's Office/Jackson District Administrative Site Conveyance <i>Grand Mesa, Uncompahgre, and Gunnison NFs</i>	Environmental Assessment October 2009, Supplement January 2012	DN / FONSI May 4, 2012	This project includes development activities separate from the conveyance – the development activities are those reviewed.
Payson Administrative Site Sale/Facilities <i>Payson RD</i> <i>Tonto NF</i>	Environmental Assessment August 2012	DN / FONSI August 9, 2013	This project includes development activities separate from the sale – the development activities are those reviewed.
Dinkey Ranger Station Buildings Decommission <i>High Sierra RD</i> <i>Sierra NF</i>	Environmental Assessment July 2012	DN / FONSI July 10, 2012	

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Kitchen Creek Helitanker Base <i>Descanso RD</i> <i>Cleveland NF</i>	Environmental Assessment April 2012	DN / FONSI April 11, 2012	
Laguna Water System Improvement <i>Descanso RD</i> <i>Cleveland NF</i>	Environmental Assessment December 2014	DN / FONSI March 5, 2015	
North Fork Pole Barn Decommissioning <i>Bass Lake RD</i> <i>Sierra NF</i>	Environmental Assessment April 2012	DN / FONSI July 9, 2012	
Pacific Heliport Reconstruction <i>Pacific RD</i> <i>Eldorado NF</i>	Environmental Assessment	DN / FONSI September 24, 2012	
William and Kent Campground BMP Retrofit and Administrative Site Redevelopment <i>Lake Tahoe Basin Management Unit</i>	Environmental Assessment February 2013	DN / FONSI February 4, 2013	Appendix A: Project Design Features Appendix B: Best Management Practices
Administrative Radio Repeater Improvement Project <i>White Mountain NF</i>	Environmental Assessment March 2015	DN / FONSI May 18, 2015	

## Appendix B – Professional Staff and Experts

### CE #1

NAME	TITLE	EDUCATION	YRS	AGENCIES	REGION(S)	EXPERTISE
Megan Healy	National NEPA Specialist	B.S – Technical and Scientific Communication M.A. – Environmental and Resource Policy	11	USFS - NFS	National	Environmental Compliance (NEPA)
Sam Gaugush	National NEPA Specialist	J.D. University Oregon School of Law, B.A. Sociology and Spanish	10	USFS, BLM	National	NEPA, Environmental and Natural Resources Law, Administrative Law
Michael Balen	National Facilities Program Manager	B.S. – Geological Engineering M.S. – Engineering Management	34	DOI – US Bureau of Mines, Alaska DOT, USFS – NFS	R10, R4, R5, National	Mining and Civil Engineering, Hydrologic Design and Construction, Construction and Project Management
Savoth Hy	Assistant National Facilities Program Manager	B.S. – Civil Engineering	12	USFS- NFS, VA-VHA, DOD-USACE, Local Government	National	Engineering Design and Analysis, Construction and Project Management
Emilee Blount	Director of Engineering, Technology, and Geospatial Services	B.S. – Civil Engineering M.S. – Administration	33	USFS – NFS DoD	National	Engineering, Environmental Engineering, Logistics, Fleet

## CE #2 and #3

NAME	TITLE	EDUCATION	YRS	AGENCIES	REGION(S)	EXPERTISE
Megan Healy	National NEPA Specialist	B.S – Technical and Scientific Communication M.A. – Environmental and Resource Policy	11	USFS - NFS	National	Environmental Compliance (NEPA)
Sam Gaugush	National NEPA Specialist	J.D. University Oregon School of Law, B.A. Sociology and Spanish	10	USFS, BLM	National	NEPA, Environmental and Natural Resources Law, Administrative Law
Jaime Schmidt	National Trail Program Manager	B.S. Wildland Recreation Management	31	USFS - NFS	National	Trail Management, Travel Management, Recreation Management, Trail Data and Information, Trail Design
Jeff Mast	Assistant National Trail Program Manager	B.A. Political Science M.C.R.P. City & Regional Planning	13	USFS – NFS DOI - FWS Local Gov't	National	Trail Management, Travel Management, Transportation Planning
Penny Wu	National Travel Management Program Manager	B.S. Recreation Mgmt.	28	USFS - NFS	National	Travel Management
Kent Wellner	Trails, Dispersed Recreation, & Travel Management Program Manager	B.S. Forest Management (U of I). M.S. Fire Ecology and Silviculture (U of I).	31	USFS - NFS	Northern	Trail Management, Travel Management, Rec Management, Rec SUP Management
Larry Velarde	Trails/Dispersed Recreation & Travel Management Program Manager	B.S. Natural Resource Outdoor Recreation Management	24	USFS - NFS	Intermountain	Trail Management, Travel Management, Dispersed Recreation
Garrett Villanueva	Regional Trail Program Manager	B.S. Geology	20	USFS - NFS	Pacific Southwest	Trail Operations, Management and Construction

Proposed Infrastructure CEs

NAME	TITLE	EDUCATION	YRS	AGENCIES	REGION(S)	EXPERTISE
Deb Schoenberg	Assistant Trails & Travel Management Program Leader	B.S. Landscape Architecture	13	USFS - NFS	Pacific Southwest	Trail Management, Travel Management, Transportation Planning, Recreation Planning
Maham Ahmed	Trails, Travel Management & Dispersed Recreation Program Manager (acting)	B.S- Earth Systems Science MPA- Environmental Science & Policy	5	USFS - NFS	Pacific Northwest	Trail Management, Environmental Compliance, Strategic Development.
Matthew McGrath	Pacific Northwest National Scenic Trail Program Manager	B.S – Geography and History  M.S. – Recreation Management	13	USFS - NFS	Pacific Northwest	Trail Design, Construction, and Maintenance; Visitor Use Management; Recreation Planning
Cathy Kahlow	National Recreation Sites Program	B.S-Outdoor Recreation and Natural Resource Management	31 5	USDA-NFS DOI-NPS	WO,R2,R3,R4,R5	Recreation Planning & Management District to WO, line officer
Paul E. Cruz	Rocky Mtn. Regional Recreation Business Program Manager	BS-Natural Resources Management	29 5	USDA-USFS USDA-SCS	Regional Colorado	Outdoor Rec. Planning, Dev. Rec. Facilities, Capacity Analysis
Jonathan Cook-Fisher	National Recreation Special Uses Manager	B.A. Anthropology M.S. Resource Management	15	USFS – NFS	National	Recreation, Special Uses
Benjamin Johnson	National Recreation Special Uses Program Lead	M.S. – Environmental Policy and Environmental Justice M.P.P – Public Policy B.A. – Environmental Studies and Spanish	6	USFS – NFS	National	Recreation Special Uses
Sean Wetterberg	National Winter Sports Program Manager	B.S. Forestry	16	USFS – NFS	National	Recreation Special Uses
Michiko Martin	Acting Director, Recreation, Heritage & Volunteer Resources	B.S – Oceanography M.S. – Ocean Engineering M.A. – Education Leadership	30	USFS – NFS (Previous: USFS – SPF; NOAA; DOD—Navy)	National	Recreation; Education; Protected Areas; Military Ops

**CE #4 and #5**

<b>NAME</b>	<b>TITLE</b>	<b>EDUCATION</b>	<b>YRS</b>	<b>AGENCIES</b>	<b>REGION(S)</b>	<b>EXPERTISE</b>
Megan Healy	National NEPA Specialist	B.S – Technical and Scientific Communication M.A. – Environmental and Resource Policy	11	USFS - NFS	National	Environmental Compliance (NEPA)
Sam Gaugush	National NEPA Specialist	J.D. University Oregon School of Law, B.A. Sociology and Spanish	10	USFS, BLM	National	NEPA, Environmental and Natural Resources Law, Administrative Law
Rob Gillispie	Assistant National Transportation Program Manager	B.S. Civil Engineering	8.5	FHWA USFS – NFS	National	Road Design, Construction, Policy, and Oversight
Brenda Christensen	Transportation Group Leader	B.S. Civil Engineering	29	USFS – NFS	Northern Region	Transportation Design, Construction, Maintenance, Policy and Oversight
Doug Wise	Deputy Director of Engineering and Transportation Group Lead	B.S. Civil Engineering M.S. Engineering and Environmental Mgmt	30	DOD – USAF USFS – NFS	Rocky Mountain	Planning, Programming, Design, Construction, Policy, Oversight, and Environmental
Justin Humble	Transportation Group Lead	B.S. Civil Engineering Masters of Public Administration	20	Private, Local govt, DOD- USAF, USFS – NFS	Intermountain	Transportation and Environmental Planning, Programming, Design, Construction, Policy and Oversight
David Payne	National Transportation Program Manager	B.S. Geology	40	FHWA County govt VDOT USFS – NFS	Southern Region National	Design, Construction, Program Admin., Planning, Environmental, Facilities

*Proposed Infrastructure CEs*

<b>NAME</b>	<b>TITLE</b>	<b>EDUCATION</b>	<b>YRS</b>	<b>AGENCIES</b>	<b>REGION(S)</b>	<b>EXPERTISE</b>
Veronica Mitchell	Transportation Planner and Development	B.S. Civil Engineering	30	USFS – NFS	Rocky Mountain	Travel Management Planning, Environmental Compliance, Road Design, Construction, Policy and Oversight
Marjorie Apodaca	Transportation Group Leader	B.S. Civil Engineering	30	USFS – NFS	Southwestern	Planning, Design, Construction, and maintenance of roads and bridges
Leslie Boak	Regional Transportation Engineer	Construction Engineering Management	20	USFS – NFS	Pacific Northwest National Pacific Southwest	Transportation Design, Construction, Implementation, Maintenance, Policy and Oversight
Steve Schnetzler	Transportation Development Engineer	B.S. Civil Engineering	17	Private USFS – NFS	Southern Region	Geotechnical and Materials Engineering, Roadway Design/Construction, Geotechnical/Structures Design/Construction
Amanda Warner Thorpe	Regional Transportation Program Manager	B.S. Civil Engineering	17	BLM USFS – NFS	Alaska Pacific Northwest	Road Project Design, Construction, Program Policy, Oversight, and Management
Emilee Blount	Director of Engineering, Technology, and Geospatial Services	B.S. – Civil Engineering M.S. – Administration	33	USFS – NFS DoD	National	Engineering, Environmental Engineering, Logistics, Fleet

## CE #6

NAME	TITLE	EDUCATION	YRS	AGENCIES	REGION(S)	EXPERTISE
Megan Healy	National NEPA Specialist	B.S – Technical and Scientific Communication M.A. – Environmental and Resource Policy	11	USFS - NFS	National	Environmental Compliance (NEPA)
Sam Gaugush	National NEPA Specialist	J.D. University Oregon School of Law, B.A. Sociology and Spanish	10	USFS, BLM	National	NEPA, Environmental and Natural Resources Law, Administrative Law
Jaime Schmidt	National Trail Program Manager	B.S. Wildland Recreation Management	31	USFS - NFS	National	Trail Management, Travel Management, Recreation Management, Trail Data and Information, Trail Design
Jeff Mast	Assistant National Trail Program Manager	B.A. Political Science M.C.R.P. City & Regional Planning	13	USFS – NFS DOI - FWS Local Gov't	National	Trail Management, Travel Management, Transportation Planning
Penny Wu	National Travel Management Program Manager	B.S. Recreation Mgmt.	28	USFS - NFS	National	Travel Management
Kent Wellner	Trails, Dispersed Recreation, & Travel Management Program Manager	B.S. Forest Management (U of I). M.S. Fire Ecology and Silviculture (U of I).	31	USFS - NFS	Northern	Trail Management, Travel Management, Rec Management, Rec SUP Management
Larry Velarde	Trails/Dispersed Recreation & Travel Management Program Manager	B.S. Natural Resource Outdoor Recreation Management	24	USFS - NFS	Intermountain	Trail Management, Travel Management, Dispersed Recreation
Garrett Villanueva	Regional Trail Program Manager	B.S. Geology	20	USFS - NFS	Pacific Southwest	Trail Operations, Management and Construction

Proposed Infrastructure CEs

NAME	TITLE	EDUCATION	YRS	AGENCIES	REGION(S)	EXPERTISE
Deb Schoenberg	Assistant Trails & Travel Management Program Leader	B.S. Landscape Architecture	13	USFS - NFS	Pacific Southwest	Trail Management, Travel Management, Transportation Planning, Recreation Planning
Maham Ahmed	Trails, Travel Management & Dispersed Recreation Program Manager (acting)	B.S- Earth Systems Science MPA- Environmental Science & Policy	5	USFS - NFS	Pacific Northwest	Trail Management, Environmental Compliance, Strategic Development.
Matthew McGrath	Pacific Northwest National Scenic Trail Program Manager	B.S – Geography and History  M.S. – Recreation Management	13	USFS - NFS	Pacific Northwest	Trail Design, Construction, and Maintenance; Visitor Use Management; Recreation Planning
Rob Gillispie	Assistant National Transportation Program Manager	B.S. Civil Engineering	8.5	FHWA USFS – NFS	National	Road Design, Construction, Policy, and Oversight
Brenda Christensen	Transportation Group Leader	B.S. Civil Engineering	29	USFS – NFS	Northern Region	Transportation Design, Construction, Maintenance, Policy and Oversight
Doug Wise	Deputy Director of Engineering and Transportation Group Lead	B.S. Civil Engineering M.S. Engineering and Environmental Mgmt	30	DOD – USAF USFS – NFS	Rocky Mountain	Planning, Programming, Design, Construction, Policy, Oversight, and Environmental
Justin Humble	Transportation Group Lead	B.S. Civil Engineering Masters of Public Administration	20	Private, Local govt, DOD- USAF, USFS – NFS	Intermountain	Transportation and Environmental Planning, Programming, Design, Construction, Policy and Oversight

Proposed Infrastructure CEs

NAME	TITLE	EDUCATION	YRS	AGENCIES	REGION(S)	EXPERTISE
David Payne	National Transportation Program Manager	B.S. Geology	40	FHWA County govt VDOT USFS – NFS	Southern Region National	Design, Construction, Program Admin., Planning, Environmental, Facilities
Veronica Mitchell	Transportation Planner and Development	B.S. Civil Engineering	30	USFS – NFS	Rocky Mountain	Travel Management Planning, Environmental Compliance, Road Design, Construction, Policy and Oversight
Marjorie Apodaca	Transportation Group Leader	B.S. Civil Engineering	30	USFS – NFS	Southwestern	Planning, Design, Construction, and maintenance of roads and bridges
Leslie Boak	Regional Transportation Engineer	Construction Engineering Management	20	USFS – NFS	Pacific Northwest National Pacific Southwest	Transportation Design, Construction, Implementation, Maintenance, Policy and Oversight
Steve Schnetzler	Transportation Development Engineer	B.S. Civil Engineering	17	Private USFS – NFS	Southern Region	Geotechnical and Materials Engineering, Roadway Design/Construction, Geotechnical/Structures Design/Construction
Amanda Warner Thorpe	Regional Transportation Program Manager	B.S. Civil Engineering	17	BLM USFS – NFS	Alaska Pacific Northwest	Road Project Design, Construction, Program Policy, Oversight, and Management
Emilee Blount	Director of Engineering, Technology, and Geospatial Services	B.S. – Civil Engineering M.S. – Administration	33	USFS – NFS DoD	National	Engineering, Environmental Engineering, Logistics, Fleet

## APPENDIX C – Previously Implemented Actions – CE #2 and #3

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
<b>Projects with Survey Respondents</b>			
Middle Citico Vegetation Management <i>Tellico RD</i> <i>Cherokee NF</i>	Environmental Assessment July 2013	DN / FONSI September 12, 2013	Biological Opinion, July 3, 2013; Biological Opinion Terms and Conditions, July 2013
Cave Run Nonmotorized Trails <i>Cumberland RD</i> <i>Daniel Boone NF</i>	Environmental Assessment September 2013	DN / FONSI September 25, 2013	
Williamson River Cliff Area <i>Chiloquin RD</i> <i>Fremont-Winema NF</i>	Environmental Assessment May 2012	DN / FONSI July 18, 2012	
Crandall OHV Restroom <i>Mi-Wok RD</i> <i>Stanislaus NF</i>	Environmental Assessment March 2013	DN / FONSI March 19, 2013	
Seal Point Recreation Enhancement <i>Petersburg RD</i> <i>Tongass NF</i>	Environmental Assessment March 2012	DN / FONSI June 18, 2012	
Treadwell Ditch Trail Bridge Replacement <i>Juneau RD</i> <i>Tongass NF</i>	Environmental Assessment February 2016	DN / FONSI April 20, 2016	
Lower Kern Canyon & Greenhorn Mountains OHV Restoration Project <i>Kern River RD</i> <i>Sequoia NF</i>	Environmental Assessment August 2013	DN / FONSI September 10, 2013	
Eyak Boat Launch Reconstruction <i>Cordova RD</i> <i>Tongass NF</i>	Environmental Assessment October 2012	DN / FONSI February 7, 2014	Exhibit 1 – Design Features and Required Monitoring

Proposed Infrastructure CEs

<b>PROJECT NAME &amp; LOCATION</b>	<b>ENVIRONMENTAL ANALYSIS DOCUMENT</b>	<b>DECISION DOCUMENT</b>	<b>SUPPLEMENTAL INFORMATION</b>
Telephone Canyon Trails <i>Spring Mountains National Recreation Area</i> <i>Humboldt-Toiyabe NF</i>	Environmental Assessment August 2012	DN / FONSI October 3, 2012	Appendix B – Design Criteria, Mitigation, and Conservation Measures (DN)
Avalanche Campground Healthy Forest Campsite Relocation <i>Aspen-Sopris RD</i> <i>White River NF</i>	Environmental Assessment September 2014	DN / FONSI September 16, 2014	
College Campground Rehabilitation <i>High Sierra RD</i> <i>Sierra NF</i>	Environmental Assessment July 2012	DN / FONSI July 19, 2012	Appendix B: Measures Built Into the Proposed Action to Avoid or Minimize Effects Appendix C: Best Management Practices
Welcome Station Trail Connections <i>Bend-Fort Rock RD</i> <i>Deschutes NF</i>	Environmental Assessment March 2014	DN / FONSI July 29, 2014	
Road/Trail Decommissioning and Seasonal Closure Project <i>Conasuaga RD</i> <i>Chattahoochee-Oconoe NFs</i>	Environmental Assessment February 2015	DN / FONSI June 12, 2015	
Forest-wide Unauthorized Route Decommissioning <i>Cleveland NF</i>	Environmental Assessment May 2016	DN / FONSI May 20, 2016	
Jackson Hole Mountain Resort Suite of Projects <i>Jackson RD</i> <i>Bridger-Teton NF</i>	Environmental Assessment July 2015	DN/FONSI August 31, 2015	Appendix B – Watershed Resources Best Management Practices
Recreation Residence Tract Associate Permits <i>Calaveras RD</i> <i>Stanislaus NF</i>	Environmental Assessment November 2011	DN/FONSI November 14, 2011	
Trailhead Construction Project for the Woods Ferry Horse Trail <i>Enoree RD</i> <i>Francis Marion and Sumter NFs</i>	Environmental Assessment March 2016	DN / FONSI June 10, 2016	

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
<b>Other Projects Reviewed</b>			
Clear Creek <i>Plains/Thompson Falls RD</i> <i>Lolo NF</i>	Environmental Assessment September 2014	DN / FONSI September 2, 2014	Appendix D: Resource Protection Measures and Monitoring
Emerald Creek Garnet Area Improvement <i>St. Maries RD</i> <i>Idaho Panhandle NF</i>	Environmental Assessment March 2016	DN / FONSI March 11, 2016	
Buford/New Castle Motorized Trail <i>West Zone/Rifle RD</i> <i>White River NF</i>	Environmental Assessment June 2012	DN / FONSI June 13, 2012	
Muddy Guard Road Re-route <i>Powder River RD</i> <i>Bighorn NF</i>	Environmental Assessment May 2012	DN / FONSI May 22, 2012	
Recreation-Turkey Springs Trail Management Plan <i>Pagosa RD</i> <i>San Juan NF</i>	Environmental Assessment March 2012	DN / FONSI March 16, 2012	Appendix A: Design Criteria and Monitoring Plan
Glorieta Mesa Target Shooting Closure <i>Pecos-Las Vegas RD</i> <i>Santa Fe NF</i>	Environmental Assessment February 2011	DN / FONSI December 2, 2011	
Moon Lake Boat Ramp <i>Roosevelt RD</i> <i>Ashley NF</i>	Environmental Assessment September 2014	DN / FONSI February 12, 2015	
Brokenshire <i>Almanor RD</i> <i>Lassen NF</i>	Environmental Assessment July 2013	DN / FONSI September 27, 2013	
Rattlesnake Mountain OHV Trails <i>Big Bear RD</i> <i>San Bernardino NF</i>	Environmental Assessment February 2016	DN / FONSI April 11, 2016	Hydrology and Soils Report; Biological Assessment/Evaluation
Whitney Portal Walk-in Campground Expansion <i>Mount Whitney RD</i> <i>Inyo NF</i>	Environmental Assessment June 2012	DN / FONSI June 26, 2012	

<b>PROJECT NAME &amp; LOCATION</b>	<b>ENVIRONMENTAL ANALYSIS DOCUMENT</b>	<b>DECISION DOCUMENT</b>	<b>SUPPLEMENTAL INFORMATION</b>
Blue Mountain Snowpark <i>Blue Mountain RD</i> <i>Malheur NF</i>	Environmental Assessment November 2012	DN / FONSI January 31, 2013	
Phil's Trailhead Project <i>Bend/Fort Rock RD</i> <i>Deschutes NF</i>	Environmental Assessment April 2012	DN / FONSI April 16, 2012	Appendix A: Resource Protection Measures
Rim Butte OHV Jeep Trails <i>Bend/Fort Rock RD</i> <i>Deschutes NF</i>	Environmental Assessment September 2013	DN / FONSI November 15, 2013	Appendix A: Mitigation Measures and Monitoring
Clay County Shooting Range <i>Tusquittee RD</i> <i>NFs in North Carolina</i>	Environmental Assessment September 2013	DN / FONSI September 27, 2013	
Conecuh Shooting Range <i>Conecuh RD</i> <i>NFs in Alabama</i>	Environmental Assessment April 2012	DN / FONSI April 17, 2012	
Corsair/Sand Lake <i>Huron Shores RD</i> <i>Huron-Manistee NF</i>	Environmental Assessment November 2013	DN / FONSI August 4, 2014	
Glen Ellis Falls Day Use Area Site Improvement <i>Androscoggin RD</i> <i>White Mountain NF</i>	Environmental Assessment February 2015	DN / FONSI May 15, 2015	
Island Campground Reconstruction <i>Greenbrier RD</i> <i>Monongahela NF</i>	Environmental Assessment January 2012	DN / FONSI February 13, 2012	
North Fork River Access <i>Ava/Cassville/Willow Springs RD</i> <i>Mark Twain NF</i>	Environmental Assessment March 2015	DN / FONSI May 6, 2015	Appendix B: Mitigation
Tripoli Road Campsite Relocation and Roadside Hazard Tree Removal <i>Pemigewasset RD</i> <i>White Mountain NF</i>	Environmental Assessment April 2016	DN / FONSI May 27, 2016	

<b>PROJECT NAME &amp; LOCATION</b>	<b>ENVIRONMENTAL ANALYSIS DOCUMENT</b>	<b>DECISION DOCUMENT</b>	<b>SUPPLEMENTAL INFORMATION</b>
White Sulphur Springs Bath House <i>Sitka RD</i> <i>Tongass NF</i>	Environmental Assessment February 2012	DN / FONSI May 29, 2012	
Bear Valley Mountain Resort Expansion <i>Calaveras RD</i> <i>Stanislaus NF</i>	Environmental Assessment September 2012	DN/FONSI September 21, 2012	
Snowmass Ski Trail Enhancements and high Alpine Chairlift Replacement <i>West Zone/Sopris RD</i> <i>White River NF</i>	Environmental Assessment December 2014	DN/FONSI April 21, 2015	Appendix A: Project Design Criteria and Best Management Practices Incorporated Into the Selected Alternative
Mammoth Mountain Winter Recreation Projects <i>Mammoth and Mono Lake RDs</i> <i>Inyo NF</i>	Environmental Assessment August 2012	DN/FONSI September 17, 2012	
Keystone Frontside Improvements <i>East Zone/Dillon RD</i> <i>White River NF</i>	Environmental Assessment/FONSI February 2014	DN March 27, 2014	
Loon Mountain South Peak Learning Center <i>Pemigewasset RD</i> <i>White Mountain NF</i>	Environmental Assessment April 2014	DN/FONSI August 26, 2014	
Copper Mountain Improvements <i>East Zone/Dillon RD</i> <i>White River NF</i>	Environmental Assessment August 2013	DN/FONSI August 29, 2013	
Ski Hill Improvements <i>Wenatchee River RD</i> <i>Okanogan-Wenatchee NF</i>	Environmental Assessment April 2016	DN/FONSI May 20, 2016	
Second Knoll Shooting Range <i>Lakeside RD</i> <i>Apache-Sitgreaves NFs</i>	Environmental Assessment April 2013	DN/FONSI May 24, 2013	
Buttercup Ski Lift Replacements <i>Hood River RD</i> <i>Mt. Hood NF</i>	Environmental Assessment September 2013	DN/FONSI September 16, 2013	

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Summit Huts Association – Weber Gulch Backcountry Hut <i>Dillon RD</i> <i>White River NF</i>	Environmental Assessment June 2015	DN/FONSI June 17, 2015	
Cabin F7 Replacement <i>Klamath RD</i> <i>Fremont-Winema NF</i>	Environmental Assessment May 2016	DN/FONSI July 7, 2016	
Snow Mass Ski Area – Burnt Mountain Egress Trail <i>Aspen-Sopris RD</i> <i>White River NF</i>	Environmental Assessment December 2014	DN/FONSI April 21, 2015	

## APPENDIX D – Previously Implemented Actions – CE #4 and #5

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
<b>Projects with Survey Respondents</b>			
Redfish Lake Complex – Road and Bridge Construction <i>Sawtooth National Recreation Area</i> <i>Sawtooth NF</i>	Environmental Assessment October 2011	DN / FONSI October 3, 2011	Monitoring Report (December 2015)
Northeast Lake <i>Poplar Bluff RD</i> <i>Mark Twain NF</i>	Environmental Assessment February 2013	DN / FONSI March 6, 2013	
Rennic Stark Project <i>Ninemile RD</i> <i>Lolo NF</i>	Environmental Assessment November 2012	DN / FONSI March 22, 2013	

Proposed Infrastructure CEs

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Dorset/Peru Integrated Resource Project <i>Manchester RD</i> <i>Green Mountain and Finger Lakes NFs</i>	Environmental Assessment February 2013	DN / FONSI February 28, 2013	Appendix B: Mitigation Measures
Corral Creek Road Relocation and Restoration <i>La Grande RD</i> <i>Wallowa-Whitman NF</i>	Environmental Assessment December 2013	DN / FONSI February 19, 2014	2014 Project Accomplishment Factsheet
Seven Cabins Road Realignment <i>Smokey Bear RD</i> <i>Lincoln NF</i>	Environmental Assessment September 2014	DN / FONSI September 15, 2014	
Bridge Replacement and Rehabilitation on NFSR 150 <i>Gila NF</i>	Environmental Assessment February 2013	DN / FONSI September 26, 2013	
Interior Vegetation Management Project <i>Ottawa NF</i>	Environmental Assessment March 2014	DN / FONSI July 24, 2014	Appendix 1. Design Criteria and Monitoring
Calawah Watershed Road Decommissioning <i>Pacific RD</i> <i>Olympic NF</i>	Environmental Assessment March 2014	DN / FONSI May 2, 2014	
South Nestucca Restoration Project <i>Hebo RD</i> <i>Siuslaw NF</i>	Environmental Assessment January 2015	DN / FONSI March 24, 2015	
Fraser Flat Bridge Replacement <i>Mi-Wok RD</i> <i>Stanislaus NF</i>	Environmental Assessment February 2013	DN / FONSI April 18, 2013	
Slack Weiss Analysis Area <i>Parks RD</i> <i>Medicine Bow-Routt NF</i>	Environmental Assessment November 2015	DN / FONSI March 22, 2016	Appendix A: Design Criteria, Mitigation Measures, and Monitoring Criteria for the Proposed Action

<b>PROJECT NAME &amp; LOCATION</b>	<b>ENVIRONMENTAL ANALYSIS DOCUMENT</b>	<b>DECISION DOCUMENT</b>	<b>SUPPLEMENTAL INFORMATION</b>
Land Bridge Road, Bridge Relocation <i>Andrew Pickens RD</i> <i>Francis Marion and Sumter NFs</i>	Environmental Assessment April 2014	DN / FONSI June 23, 2014	
Parks-Eddy Watershed Restoration <i>Mt. Shasta RD</i> <i>Shasta-Trinity NF</i>	Environmental Assessment September 2014	DN / FONSI December 19, 2014	
Lolo First 50 Road Decommissioning <i>Lochsa RD</i> <i>Nez Perce-Clearwater NFs</i>	Environmental Assessment July 2014	DN / FONSI April 7, 2015	Clearwater National Forests – BMP Audits, 1990-2016
Pole Creek Road Reroute <i>Sawtooth National Recreation Area</i> <i>Sawtooth NF</i>	Environmental Assessment May 2014	DN / FONSI June 25, 2014	BMP Evaluation – Decommissioning Pole Creek Culvert Checklist Road BMP Photos
Pack II Decommissioning <i>Powell RD</i> <i>Nez Perce-Clearwater NFs</i>	Environmental Assessment March 2014	DN / FONSI May 29, 2014	
1136 Spur Road Project <i>Hebo RD</i> <i>Siuslaw NF</i>	Environmental Assessment May 2015	DN / FONSI August 25, 2015	
Fourche Mountain Ecosystem Management Unit <i>Ouachita NF</i>	Environmental Assessment July 2016	DN / FONSI July 22, 2016	
Brown Creek-Lower Maumelle <i>Jessieville RD</i> <i>Ouachita NF</i>	Environmental Assessment May 2016	DN / FONSI May 20, 2016	
<b>Other Projects Reviewed</b>			
Doc Denny Vegetation Management <i>Clearwater RD</i> <i>Nez Perce-Clearwater NFs</i>	Environmental Assessment August 2012	DN / FONSI August 20, 2013	

Proposed Infrastructure CEs

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Marshall Woods Restoration Project <i>Missoula RD</i> <i>Lolo NF</i>	Environmental Assessment February 2015	DN / FONSI January 28, 2016	
Martin Creek Watershed Restoration Project <i>Sula RD</i> <i>Bitterroot NF</i>	Environmental Assessment September 2012	DN / FONSI January 10, 2013	
Elkhorn Project <i>Canyon Lakes RD</i> <i>Arapaho and Roosevelt NFs</i>	Environmental Assessment March 2014	DN / FONSI June 9, 2014	
West Tensleep Corridor Master Recreation <i>Powder River RD</i> <i>Bighorn NF</i>	Environmental Assessment May 2012	DN / FONSI May 24, 2012	
Travel Management on the Camino Real RD <i>Camino Real RD</i> <i>Carson NF</i>	Environmental Assessment September 2013	DN / FONSI September 27, 2013	Transportation and Motor Vehicle Use Report, September 2013
Bear Gulch Road Closure <i>Ashton/Island Park</i> <i>Caribou-Targhee NF</i>	Environmental Assessment July 2012	DN / FONSI July 18, 2012	
Trabuco Aquatic Organism Passage Restoration <i>Trabuco RD</i> <i>Cleveland NF</i>	Environmental Assessment September 2011	DN / FONSI October 14, 2011	
Chip-munk Recovery and Restoration <i>Mt. Hough RD</i> <i>Plumas NF</i>	Environmental Assessment July 2013	DN / FONSI July 30, 2013	
Jackass Creek Bridge Replacement <i>Mt. Hough RD</i> <i>Plumas NF</i>	Environmental Assessment April 2016	DN / FONSI August 15, 2016	

Proposed Infrastructure CEs

<b>PROJECT NAME &amp; LOCATION</b>	<b>ENVIRONMENTAL ANALYSIS DOCUMENT</b>	<b>DECISION DOCUMENT</b>	<b>SUPPLEMENTAL INFORMATION</b>
Dragon Project <i>Eagle Lake RD</i> <i>Lassen NF</i>	Environmental Assessment November 2013	DN / FONSI January 24, 2014	Dragon Project: Transportation Report
Soquel Ditch Bridge Replacement <i>Bass Lake RD</i> <i>Sierra NF</i>	Environmental Assessment February 2014	DN / FONSI May 12, 2014	
Wildcat Fuels Reduction and Vegetation Management <i>Mt. Hough RD</i> <i>Plumas NF</i>	Environmental Assessment November 2015	DN / FONSI August 15, 2016	
1900 Flood Repair <i>Naches RD</i> <i>Okanogan-Wenatchee NF</i>	Environmental Assessment January 2012	DN / FONSI April 17, 2012	
Forest Service Road 1501 Flood Repair <i>Naches RD</i> <i>Okanogan-Wenatchee NF</i>	Environmental Assessment May 2013	DN / FONSI September 24, 2013	
Forest Service Road 3300 Flood Repair <i>Cle Elum RD</i> <i>Okanogan-Wenatchee NF</i>	Environmental Assessment June 2014	DN / FONSI August 19, 2014	
Forest Service Road System 1700 Flood Repair <i>Naches RD</i> <i>Okanogan-Wenatchee NF</i>	Environmental Assessment May 2013	DN / FONSI July 3, 2013	
Lava Restoration <i>Hood River RD</i> <i>Mt. Hood NF</i>	Environmental Assessment May 2014	DN / FONSI April 29, 2015	Appendix 2: Design Criteria/Mitigation Measures
Lower Cispus Road Decommissioning <i>Cowlitz RD</i> <i>Gifford Pinchot NF</i>	Environmental Assessment November 2012	DN / FONSI November 7, 2012	Appendix A: Design Criteria and Mitigation Measures

<b>PROJECT NAME &amp; LOCATION</b>	<b>ENVIRONMENTAL ANALYSIS DOCUMENT</b>	<b>DECISION DOCUMENT</b>	<b>SUPPLEMENTAL INFORMATION</b>
North Nestucca Restoration Project <i>Hebo RD</i> <i>Siuslaw NF</i>	Environmental Assessment May 2013	DN / FONSI May 3, 2013	
Pioneer Gulch <i>Middle Fork RD</i> <i>Willamette NF</i>	Environmental Assessment August 2012	DN / FONSI December 18, 2012	
East Fork Ecosystem Management Unit – Compartments 264-269 <i>Cold Springs RD</i> <i>Ouachita NF</i>	Environmental Assessment January 2016	DN / FONSI April 22, 2016	
Munson Sandhills II Analysis Area <i>Wakulla RD</i> <i>NFs in Florida</i>	Environmental Assessment August 2013	DN / FONSI September 4, 2013	
Pine Flat Integrated Resources Restoration Plan <i>Oakmulgee RD</i> <i>NFs in Alabama</i>	Environmental Assessment June 2013	DN / FONSI June 3, 2013	
Spring Creek <i>Ocoee-Hiwassee RD</i> <i>Cherokee NF</i>	Environmental Assessment June 2012	DN / FONSI August 20, 2012	
Telogia Analysis Area <i>Wakulla RD</i> <i>NFs in Florida</i>	Environmental Assessment March 2014	DN / FONSI August 11, 2014	
Boyden Brook Road Decommission, Watershed Restoration, and Trail Relocation Project <i>Rochester RD</i> <i>Green Mountain and Finger Lakes NFs</i>	Environmental Assessment April 2015	DN / FONSI June 22, 2015	Appendix A: Mitigation Measures
Eastern Off-highway Vehicle Connector <i>Ottawa NF</i>	Environmental Assessment August 2012	DN / FONSI December 12, 2012	

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Eastside Road and Trail Repairs <i>Pemigewasset RD</i> <i>White Mountain NF</i>	Environmental Assessment December 2012	DN / FONSI December 19, 2012	
Mount Avery Spur Road <i>Powers RD</i> <i>Rogue River-Siskiyou NF</i>	Environmental Assessment August 2014	DN / FONSI July 28, 2016	
Redboat Resource Management Project <i>Bessemer RD</i> <i>Ottawa NF</i>	Environmental Assessment March 2013	DN / FONSI January 2014	
Slippery Brook Road Reconstruction <i>Saco RD</i> <i>White Mountain NF</i>	Environmental Assessment May 2013	DN / FONSI May 31, 2013	
Lena Beach Recreation Area Improvement <i>Juneau RD</i> <i>Tongass NF</i>	Environmental Assessment February 2015	DN / FONSI June 30, 2015	
Improvements for Neck Lake and El Capitan Cave Roads <i>Thorne Bay RD</i> <i>Tongass NF</i>	Environmental Assessment February 2016	DN / FONSI September 7, 2016	
West Glacier Spur Road Area Enhancements <i>Juneau RD</i> <i>Tongass NF</i>	Environmental Assessment January 2015	DN / FONSI June 30, 2015	

## APPENDIX E – Previously Implemented Actions – CE #6

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
<b>Projects with Survey Respondents</b>			
Middle Citico Vegetation Management <i>Tellico RD</i> <i>Cherokee NF</i>	Environmental Assessment July 2013	DN / FONSI September 12, 2013	Biological Opinion, July 3, 2013; Biological Opinion Terms and Conditions, July 2013
Cave Run Nonmotorized Trails <i>Cumberland RD</i> <i>Daniel Boone NF</i>	Environmental Assessment September 2013	DN / FONSI September 25, 2013	
Lower Kern Canyon & Greenhorn Mountains OHV Restoration Project <i>Kern River RD</i> <i>Sequoia NF</i>	Environmental Assessment August 2013	DN / FONSI September 10, 2013	
Welcome Station Trail Connections <i>Bend-Fort Rock RD</i> <i>Deschutes NF</i>	Environmental Assessment March 2014	DN / FONSI July 29, 2014	
Road/Trail Decommissioning and Seasonal Closure Project <i>Conasuaga RD</i> <i>Chattahoochee-Oconoree NFs</i>	Environmental Assessment February 2015	DN / FONSI June 12, 2015	
Rennic Stark Project <i>Ninemile RD</i> <i>Lolo NF</i>	Environmental Assessment November 2012	DN / FONSI March 22, 2013	
Calawah Watershed Road Decommissioning <i>Pacific RD</i> <i>Olympic NF</i>	Environmental Assessment March 2014	DN / FONSI May 2, 2014	
Lolo First 50 Road Decommissioning <i>Lochsa RD</i> <i>Nez Perce-Clearwater NFs</i>	Environmental Assessment July 2014	DN / FONSI April 7, 2015	Clearwater National Forests – BMP Audits, 1990-2016

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Pack II Decommissioning <i>Powell RD</i> <i>Nez Perce-Clearwater NFs</i>	Environmental Assessment March 2014	DN / FONSI May 29, 2014	
<b>Other Projects Reviewed</b>			
Buford/New Castle Motorized Trail <i>West Zone/Rifle RD</i> <i>White River NF</i>	Environmental Assessment June 2012	DN / FONSI June 13, 2012	
Muddy Guard Road Re-route <i>Powder River RD</i> <i>Bighorn NF</i>	Environmental Assessment May 2012	DN / FONSI May 22, 2012	
Recreation-Turkey Springs Trail Management Plan <i>Pagosa RD</i> <i>San Juan NF</i>	Environmental Assessment March 2012	DN / FONSI March 16, 2012	Appendix A: Design Criteria and Monitoring Plan
Brokenshire <i>Almanor RD</i> <i>Lassen NF</i>	Environmental Assessment July 2013	DN / FONSI September 27, 2013	
Phil's Trailhead Project <i>Bend/Fort Rock RD</i> <i>Deschutes NF</i>	Environmental Assessment April 2012	DN / FONSI April 16, 2012	Appendix A: Resource Protection Measures
Road/Trail Decommissioning and Seasonal Closure Project <i>Conasauga RD</i> <i>Chattahoochee-Oconee NFs</i>	Environmental Assessment February 2015	DN / FONSI June 12, 2015	
Elkhorn Project <i>Canyon Lakes RD</i> <i>Arapaho and Roosevelt NFs</i>	Environmental Assessment March 2014	DN / FONSI June 9, 2014	
Dragon Project <i>Eagle Lake RD</i> <i>Lassen NF</i>	Environmental Assessment November 2013	DN / FONSI January 24, 2014	Dragon Project: Transportation Report
Wildcat Fuels Reduction and Vegetation Management <i>Mt. Hough RD</i> <i>Plumas NF</i>	Environmental Assessment November 2015	DN / FONSI August 15, 2016	

PROJECT NAME & LOCATION	ENVIRONMENTAL ANALYSIS DOCUMENT	DECISION DOCUMENT	SUPPLEMENTAL INFORMATION
Boyden Brook Road Decommission, Watershed Restoration, and Trail Relocation Project <i>Rochester RD</i> <i>Green Mountain and Finger Lakes</i> <i>NFs</i>	Environmental Assessment April 2015	DN / FONSI June 22, 2015	Appendix A: Mitigation Measures
Redboat Resource Management Project <i>Bessemer RD</i> <i>Ottawa NF</i>	Environmental Assessment March 2013	DN / FONSI January 2014	

## Appendix F – Scientific Research and Monitoring Information

RESEARCH PAPER	AUTHORS	PUBLICATION
Effects of Road Decommissioning on Stream Habitat Characteristics in the South Fork Flathead River, Montana	Magnus McCaffery, T. Adam Switalski, and Lisa Eby	Transactions of the American Fisheries Society, 136:553-561 (2007)
Influence of Road Reclamation Techniques on Forest Ecosystem Recovery	Rebecca A. Lloyd, Kehtleen A. Lohse, and TPA Ferre	Front Ecol Environ 2013; 11(2): 75-81.
Legacy Roads and Trails Monitoring Project: Road Decommissioning in the Lolo Creek Watershed, Clearwater National Forest	Richard Cissel, Tom Black, Charlie Luce	Internal USFS Monitoring Report, USDA-Forest Service, Rocky Mountain Research Station (May 2011)
Monitoring of Wildlife Habitat Restoration on the Clearwater National Forest	Adam Switalski	Wildlands CPR Monitoring Report (February 2010)
National Best Management Practices for Water Quality Management on National Forest Service Lands: Volume 1, National Core BMP Technical Guide	USDA Forest Service	USDA Forest Service, Forest Service-990a, April 2012
Restoration in Action: The First Five Years of the Legacy Roads and Trails Program	Wildlands CPR and The Wilderness Society	WildEarth Guardians Report (April 2013)

## Appendix G – Summary of Extraordinary Circumstances by Agency

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
FS	T&E species	Federally listed threatened or endangered species or designated critical habitat, species proposed for Federal listing or proposed critical habitat, or Forest Service sensitive species	FSH 1909.15 Chapter 31.2
	Flood plains, wetlands, or municipal watersheds	Flood plains, wetlands, or municipal watersheds	
	Congressionally designated areas	Congressionally designated areas, such as wilderness, wilderness study areas, or national recreation areas	
	Inventoried roadless/potential wilderness areas	Inventoried roadless areas or potential wilderness areas	
	Research natural areas	Research natural areas	
	American Indians and Alaska Native religious or cultural sites	American Indians and Alaska Native religious or cultural sites	
	Archaeological sites, or historic properties or areas	Archaeological sites, or historic properties or areas	
FSA	Scientific controversy	Scientific controversy about environmental effects of the proposed action	7 CFR 799.33

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Archaeological or historic sites; T&E species; wetlands; important or prime lands; special designation; special sources of water	Impacts that are potentially adverse, significant, uncertain, or involve unique or unknown risks, including, but not limited to, impacts to protected resources. Protected resources include, but are not limited to: (i) Property (for example, sites, buildings, structures, and objects) of historic, archeological, or architectural significance, as designated by Federal, Tribal, State, or local governments, or property eligible for listing on the National Register of Historic Places; (ii) Federally-listed threatened or endangered species or their habitat (including critical habitat), or Federally-proposed or candidate species or their habitat; (iii) Important or prime agricultural, forest, or range lands, as specified in part 657 of this chapter and in USDA Departmental Regulation 9500-3; (iv) Wetlands, waters of the United States, as regulated under the Clean Water Act ( 33 U.S.C. 1344), highly erodible land, or floodplains; (v) Areas having a special designation, such as Federally- and State-designated wilderness areas, national parks, national natural landmarks, wild and scenic rivers, State and Federal wildlife refuges, and marine sanctuaries; and (vi) Special sources of water, such as sole-source aquifers, wellhead protection areas, or other water sources that are vital in a region	
	Connected to other actions with potential impacts	A proposed action that is also “connected” (as specified in 40 CFR 1508.25(a)(1)) to other actions with potential impacts	
	Proposed action related to cumulative impacts	A proposed action that is related to other proposed actions with cumulative impacts (40 CFR 1508.25(a)(2))	
	Non-compliance with 40 CFR 1506.1	A proposed action that does not comply with 40 CFR 1506.1, “Limitations on actions during NEPA process”	
	Violation of law or policy	A proposed action that violates any existing Federal, State, or local government law, policy, or requirements (for example, wetland laws, Clean Water Act-related requirements, water rights)	
<b>NRCS</b>	Public health or safety	The proposed action cannot cause significant effects on public health or safety.	7 CFR 650.6

Proposed Infrastructure CEs

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Significantly affect unique characteristics	The proposed action cannot significantly affect unique characteristics of the geographic area, such as proximity to historic properties or cultural resources, park lands, prime farmlands, floodplains, wetlands, wild and scenic rivers, or ecologically critical areas.	
	Highly controversial	The effects of the proposed action on the quality of the human environment cannot be highly controversial.	
	Highly uncertain effects	The proposed action cannot have highly uncertain effects, including potential unique or unknown risks on the human environment.	
	Establish a new precedent	The proposed action cannot include activities or conservation practices that establish a potential precedent for future actions with significant impacts.	
	Potentially significant environmental impacts to quality of human environment	The proposed action is known to have or reasonably cannot be expected to have potentially significant environmental impacts to the quality of the human environment either individually or cumulatively over time.	
	Invasive species, T&E species, environmental justice, wetlands, wild and scenic rivers, air quality, migratory birds, bald and golden eagles	The proposed action cannot cause or promote the introduction of invasive species or have a significant adverse effect on any of the following special environmental concerns not previously identified in this section, such as: endangered and threatened species, environmental justice communities as defined in Executive Order 12898, wetlands, other waters of the United States, wild and scenic rivers, air quality, migratory birds, and bald and golden eagles.	
	Violates environmental protection laws	The proposed action will not violate Federal or other applicable law and requirements for the protection of the environment.	
<b>DOI – BLM, BIA, BOR, NPS, FWS</b>	Public health or safety	Have significant impacts on public health or safety.	43 CFR 46.215/516 DM 2, Appendix 2

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Significant impacts on natural resources and unique geographic characteristics	Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds; and other ecologically significant or critical areas.	
	Highly controversial environmental effects	Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA section 102(2)(E)].	
	Highly uncertain and potentially significant environmental effects	Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks.	
	Establish a precedent for future actions	Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects.	
	Cumulatively significant effects	Have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects	
	National Register of Historic Places	Have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by either the bureau or office.	
	T&E species and habitat	Have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species.	
	Violates environmental protection law	Violate a Federal law, or a State, local, or tribal law or requirement imposed for the protection of the environment.	
	High/adverse effect on low income or minority populations	Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898)	

Proposed Infrastructure CEs

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Limit access to and ceremonial use of Indian sacred sites	Limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007).	
	Invasive species	Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112).	
<b>DOT - FHWA and FTA</b>	Significant impacts	Significant environmental impacts.	23 CFR 771.117 (FHWA) and 771.118 (FTA)
	Substantial controversy	Substantial controversy on environmental grounds.	
	Historic properties	Significant impacts on properties protected by Section (4(f) of the DOT Act or Section 106 of the National Historic Preservation Act.	
	Inconsistencies with applicable laws	Inconsistencies with any Federal, State, or local law, requirement or administrative determination relating to the environmental aspects of the action.	
<b>DOT – Maritime Administration</b>	Public health or safety	This action would have significant adverse effects on public health or safety	MAO 600-1
	Wildlife resources/ unique geographic features	This action would have significant effect on wildlife resources or would affect unique geographical features such as: wetlands, wild or scenic rivers, refuges, floodplains, etc. or lands protected by section 4(f) of the DOT act	
	Highly controversial	This action will have highly controversial environmental effects	
	Highly uncertain environmental effects	This action will have highly uncertain environmental effects or involve unique or unknown environmental risks	
	Establish a precedent	This action will establish a precedent for future actions	
	Cumulatively significant	This action is related to other actions with individually insignificant but cumulatively significant effects	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	National Register of Historic Places	This action will affect properties listed or eligible for listing in the National Register of Historic Places, or otherwise protected by section 106 of the national Historic Preservation Act	
	T&E species	This section will affect a species listed or proposed to be listed as Endangered or Threatened.	
	Violation of law	This action is inconsistent with Federal, State, local or tribal law or requirements imposed for protection of the environment	
	Unreasonable conflicts of alternative uses of available resources	This action or group of actions would involve unresolved conflicts concerning alternative uses of available resources.	
<b>DOT – FAA</b>	Cultural Resources	An adverse effect on cultural resources protected under the National Historic Preservation Act of 1966, as amended.	FAA Order 1050.1E
	Section 4(f)	An impact on properties protected under section 4(f) of the Department of Transportation Act.	
	Federal, Tribal, State, local significance; protected resources; wetlands, coastal zones, important farmlands	An impact on natural, ecological (e.g., invasive species), or scenic resources of Federal, Tribal, State, or local significance (for example: Federally listed or proposed endangered, threatened, or candidate species or designated or proposed critical habitat under the Endangered Species Act), resources protected by the Fish and Wildlife Coordination Act; wetlands; floodplains; coastal zones; prime, unique, State or locally important farmlands; energy supply and natural resources; and wild and scenic rivers, including study or eligible river segments and solid waste management.	
	Community disruption	Cause a division or disruption of an established community, or a disruption of orderly, planned development, or an inconsistency with plans or goals that have been adopted by the community in which the project is located.	
	Increase in congestion	Cause an increase in congestion from surface transportation (by causing decrease in Level of Service below acceptable level determined by appropriate transportation agency, such as a highway agency).	
	Noise-sensitive areas	An impact on noise levels of noise-sensitive areas.	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Air quality	An impact on air quality or violate local, State, Tribal, or Federal air quality standards under the Clean Air Act Amendments of 1990.	
	Water quality	An impact on water quality, sole source aquifers, a public water supply system, or State or Tribal water quality standards established under the Clean Water Act and the Safe Drinking Water Act.	
	Highly controversial effects	Effects on the quality of the human environment that are likely to be highly controversial on environmental grounds. The term "controversial" means a substantial dispute exists as to the size, nature, or effect of a proposed Federal action. The effects of an action are considered highly controversial when reasonable disagreement exists over the project's risks of causing environmental harm. Opposition on environmental grounds by a Federal, State, or local government agency or by a Tribe or by a substantial number of the persons affected by the action should be considered in determining whether or not reasonable disagreement regarding the effects of a proposed action exists. If in doubt about whether a proposed action is highly controversial, consult the program office's headquarters environmental division, AEE (Environment and Energy Team, AEE-200), regional counsel, or AGC (AGC-600) for assistance.	
	Inconsistent with applicable laws	Likelihood to be inconsistent with any Federal, State, Tribal, or local law relating to the environmental aspects of the proposed action	
	Direct, indirect, cumulative impacts	Likely to directly, indirectly, or cumulatively create a significant impact on the human environment, including, but not limited to, actions likely to cause a significant lighting impact on residential areas or commercial use of business properties, likely to cause a significant impact on the visual nature of surrounding land uses (see sections 11 and 12, Appendix A for additional information), likely to be contaminated with hazardous materials based on Phase I or Phase II Environmental Due Diligence Audit (EDDA's) , or likely to cause such contamination (see section 10, Appendix A for additional references and discussion).	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
DOE	Scientific controversy about environmental effects of the proposal	<p>There are no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal. Extraordinary circumstances are unique situations presented by specific proposals, including, but not limited to, scientific controversy about the environmental effects of the proposal; uncertain effects or effects involving unique or unknown risks; and unresolved conflicts concerning alternative uses of available resources; and</p> <p>(3) The proposal has not been segmented to meet the definition of a categorical exclusion. Segmentation can occur when a proposal is broken down into small parts in order to avoid the appearance of significance of the total action. The scope of a proposal must include the consideration of connected and cumulative actions, that is, the proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or §1021.211 of this part concerning limitations on actions during EIS preparation.</p>	10 CFR 1021.410
	uncertain effects or effects involving unique or unknown risks	See above	
	unresolved conflicts concerning alternative uses of available resources	See above	
	Not segmented	See above	
	Does not violate other environmental laws	See above	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
<b>DHS</b>		No Extraordinary Circumstances Exist. It is not appropriate to categorically exclude an action when there are extraordinary circumstances present that would create the potential for a normally excluded action to have a significant environmental effect. In those cases where a specific action that might otherwise be categorically excluded is associated with one or more extraordinary circumstances, a Record of Environmental Consideration (REC), as described in Section 3C(2), will be prepared to document the determination that the proposed action is appropriately categorically excluded or requires further analysis through an EA or EIS process. A determination of whether an action that is normally excluded requires additional analysis because of extraordinary circumstances must focus on the action's potential effects and consider the environmental significance of those effects in terms of both context (whether local, state, regional, tribal, national, or international) and intensity. This determination is made by considering whether the specific action is likely to involve one or more of the following circumstances:	Directive Number: 023-01
	Public health and safety	A potentially significant effect on public health or safety.	
	Significant effect on species/habitat protected under a variety of environmental laws	A potentially significant effect on species or habitats protected by the Endangered Species Act, Marine Mammal Protection Act, the Migratory Bird Treaty Act, or Magnuson-Stevens Fishery Conservation and Management Act.	
	Effect on site listed or eligible for listing on the National Register of Historic Places	A potentially significant effect on a district, site, highway, structure, or object that is listed in or eligible for listing in the National Register of Historic Places, affects a historic or cultural resource or traditional and sacred sites, or the loss or destruction of a significant scientific, cultural, or historical resource.	
	Significant effect on an environmental sensitive area	A potentially significant effect on an environmentally sensitive area	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Violation of law	A potential or threatened violation of a federal, state, or local law or administrative determination imposed for the protection of the environment. Some examples of administrative determinations to consider are a local noise control ordinance; the requirement to conform to an applicable State Implementation Plan (SIP); and federal, state, or local requirements for the control of hazardous or toxic substances.	
	Highly controversial	An effect on the quality of the human environment that is likely to be highly controversial in terms of scientific validity, likely to be highly uncertain, or likely to involve unique or unknown environmental risks. This also includes effects that may result from the use of new technology or unproven technology. Controversy over, including public opposition to, a proposed action absent any demonstrable potential for significant environmental impacts does not itself constitute an extraordinary circumstance.	
	Establishes a precedent	Extent to which a precedent is established for future actions with significant effects	
	Significantly greater scope/size than normal	Significantly greater scope or size than normally experienced for a particular category of action	
	Significant degradation of already poor conditions	Potential for significant degradation of already existing poor environmental conditions. Also, initiation of a potentially significant environmental degrading influence, activity, or effect in areas not already significantly modified from their natural condition	
	Cumulative impacts	Whether the action is related to other actions with individually insignificant, but cumulatively significant impacts	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
<b>DoD – ACE</b>		Actions listed below when considered individually and cumulatively do not have significant effects on the quality of the human environment and are categorically excluded from NEPA documentation. However, district commanders should be alert for extraordinary circumstances which may dictate the need to prepare an EA or an EIS. Even though an EA or EIS is not indicated for a Federal action because of a “categorical exclusion”, that fact does not exempt the action from compliance with any other Federal law. For example, compliance with the Endangered Species Act, the Fish and Wildlife Coordination Act, the National Historic Preservation Act, the Clean Water Act, etc., is always mandatory, even for actions not requiring an EA or EIS.	33 CFR 230.9
<b>U.S. Navy</b>	Public health and safety	Would adversely affect public health or safety.	32 CFR 775.6
	Uncertain, unique, or controversial effects	Involves effects on the human environment that are highly uncertain, involve unique or unknown risks, or which are scientifically controversial.	
	Establishes precedent	Establishes precedents or makes decisions in principle for future actions that have the potential for significant impacts.	
	Violation of applicable laws	Threatens a violation of Federal, state, or local environmental laws applicable to the Department of the Navy.	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	T&E species; reefs; designated areas; wetlands; archeological or historic places; hazardous substances; Clean Air Act General Conformity Rule	<p>Involves an action that, as determined in coordination with the appropriate resource agency, may:</p> <ul style="list-style-type: none"> <li>(i) Have an adverse effect on Federally listed endangered/threatened species or marine mammals;</li> <li>(ii) Have an adverse effect on coral reefs or on Federally designated wilderness areas, wildlife refuges, marine sanctuaries, or parklands;</li> <li>(iii) Adversely affect the size, function or biological value of wetlands and is not covered by a nation-wide or regional permit;</li> <li>(iv) Have an adverse effect on archaeological resources or resources (including but not limited to ships, aircraft, vessels and equipment) listed or determined eligible for listing on the National Register of Historic Places; or</li> <li>(v) Result in an uncontrolled or unpermitted release of hazardous substances or require a conformity determination under standards of the Clean Air Act General Conformity Rule.</li> </ul>	
<b>Department of the Treasury</b>	Scope or size	The proposed action has the potential for a significant environmental impact because it is greater in scope or size than is typical for a particular category of actions.	Treasury Directive 75-02
	Controversial environmental effects	The proposed action has the potential for a significant environmental impact because it involves highly controversial environmental effects, where controversy is defined as: voiced environmentally based concerns or opposition from state/local agencies/tribes or the public.	
	Unproven technology/uncertain effects	The proposed action will use unproven technology with uncertain environmental effects that have the potential to be significant.	
	Areas of critical environmental concern	The proposed action has the potential for a significant environmental impact to areas of critical environmental concern, including, but not limited to, prime or unique agricultural lands, wetlands or floodplains, coastal zones, wilderness areas, aquifers, or wild and scenic rivers.	

Agency	Extraordinary Circumstances	Description (from rule/regulation)	Citation
	Archaeological or historic resources	The proposed action has the potential for a significant environmental impact to properties or archaeological resources that are either listed or eligible for listing on the National Register of Historic Places (note: this extraordinary circumstance is not applicable if a separate Section 106 process under the National Historic Preservation Act has been completed resulting in the concurrence of the State Historic Preservation Officer (SHPO) or the Tribal Historic Preservation Officer (THPO) or the signing of a Memorandum of Agreement with the SHPO or THPO and/or the Advisory Council on Historic Preservation).	
	T&E species	The proposed action has the potential for a significant environmental impact on species endangered, threatened, or proposed to be listed on the List of Endangered or Threatened Species or located in an area designated as Critical Habitat for an endangered or threatened species or other protected resources.	
	Violation of applicable environmental laws	The proposed action has the potential to violate federal, state, local, or tribal laws for the protection of the environment.	
	Inconsistency with laws, requirements, plans, administrative determinations	The proposed action has the potential for a significant environmental impact and is subject to inconsistency with federal, state, local or tribal laws, requirements, plans, or administrative determinations.	
	Degradation of existing poor conditions	The proposed action has the potential to cause degradation of already poor environmental conditions, resulting in a significant impact on the environment.	
	Hazardous or toxic substances	The proposed action has the potential to add to or disturb hazardous or toxic substances existing at the project site at levels which exceed federal, state, local or tribal laws or regulations or standards requiring action or attention.	
	Health or safety	The proposed action has the potential to cause significant impacts on health or safety.	

<b>Agency</b>	<b>Extraordinary Circumstances</b>	<b>Description (from rule/regulation)</b>	<b>Citation</b>
	Cumulative impacts	The proposed action has the potential to cause significant cumulative impacts when the proposed action is combined with other past, present, and reasonably foreseeable future actions, even though the impacts of the proposed action may not be significant by themselves.	
	Uncertain effects or unique or unknown risks	The potential environmental effects of the proposed action are highly uncertain or involve unique or unknown risks.	
	Establish precedent	The proposed action may establish a precedent or principle for future actions that have the potential for a significant impact on the environment.	