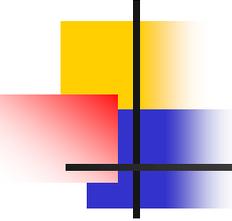


Emergency Relief for Federally Owned Roads (ERFO)



**U.S. Department of Transportation
Federal Highway Administration**

August 2012

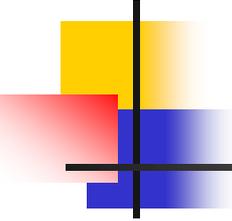


ERFO Program

What is ERFO

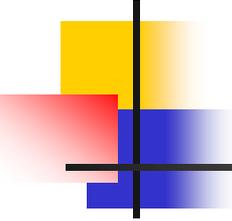
What is Eligible

How to Apply



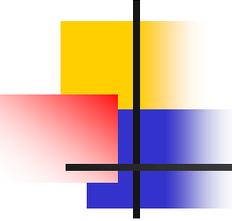
Disaster Relief Programs

- Federal Emergency Management Agency (FEMA)
- Federal Highway Administration (FHWA)
- FHWA TTP HPPP Emergency Funding



FHWA Emergency Relief Program (ER and ERFO)

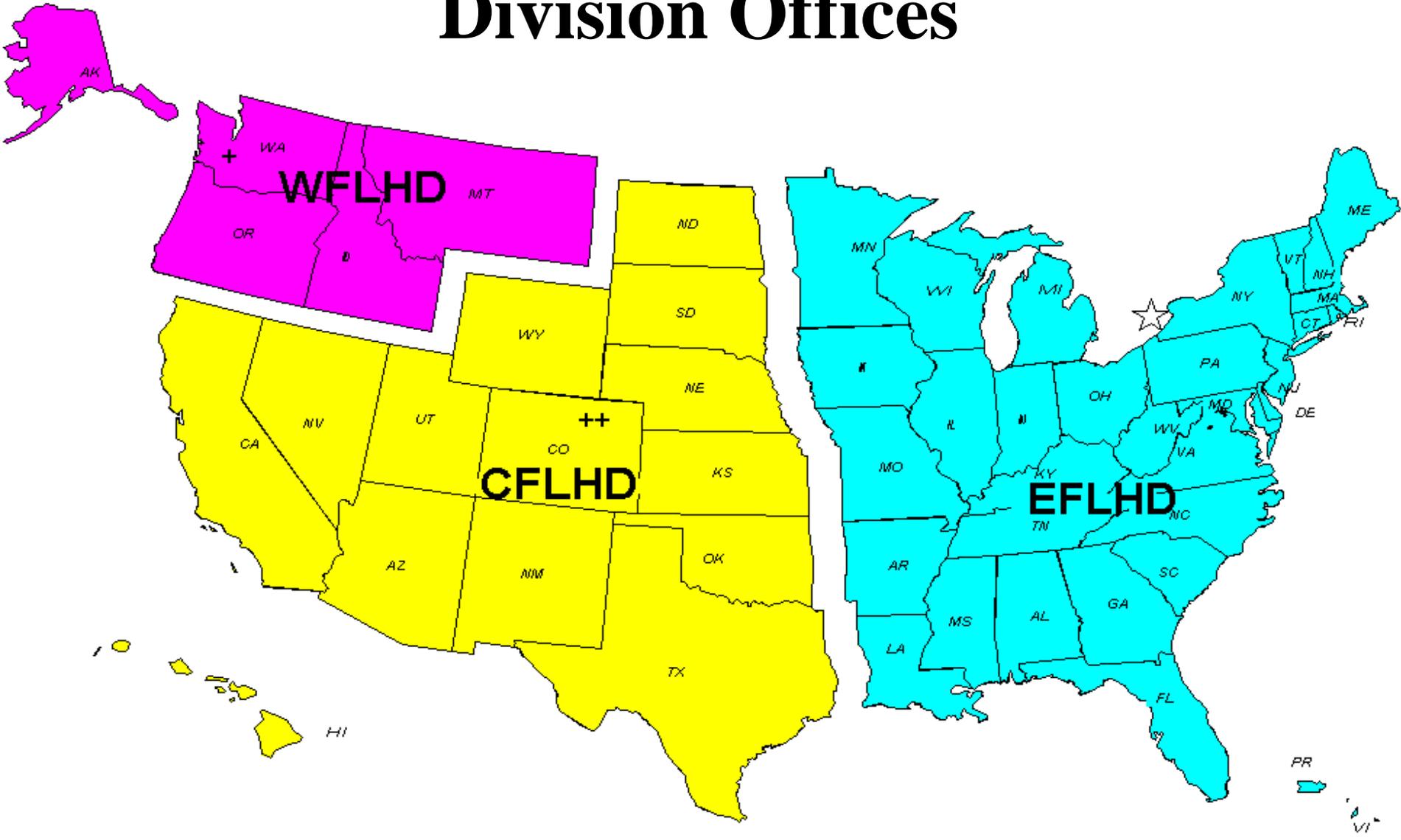
- Title 23 U.S.C., Section 125
- Title 23, CFR, Part 668 – Emergency Relief Program
 - Subpart A - Procedures for Federal-Aid Highways (ER)
 - Subpart B – Procedures for Federal Agencies for Federal Roads (ERFO)

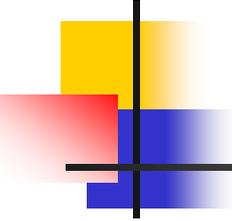


Office of Federal Lands Highway (FLH)

- Administers the ERFO Program
- Provides program stewardship and transportation engineering services for highways and bridges that provide access to and through federal and tribal owned lands.

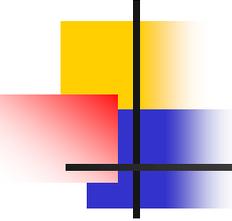
Federal Lands Highway Division Offices





ERFO Program Personnel

- ERFO Program Manager
 - Sergio Mayorga (202) 366-9491
- ERFO Coordinators
 - EFLHD – John Wright (571) 434-1547
 - CFLHD – Michael Daly (720) 963-3551
 - WFLHD - David Hilgendorf (360) 619-7620



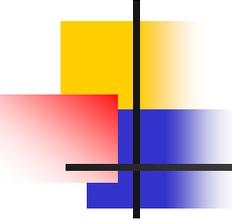
ERFO Program - Summary

What is ERFO

- Disaster Relief Program administered by
 - US Department of Transportation (USDOT)
 - Federal Highway Administration (FHWA)
 - Office of Federal Lands Highway (FLH)

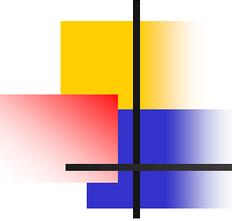
What is Eligible

How to Apply



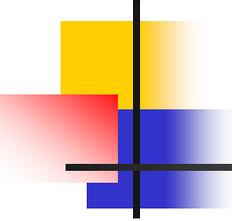
What is Eligible?

- Serious damage to roads and bridges caused by a
 - Natural Disaster over a wide area
or
 - Catastrophic failure (sudden and complete) of a major element/segment
- Cumulative Damage exceeds \$700,000



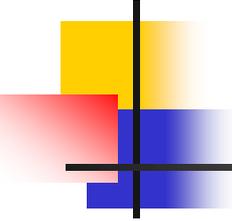
What is Eligible?

- Public roads and bridges on the BIA's Indian Reservation Roads (IRR) inventory
 - BIA and tribal jurisdiction ($\pm 26,000$ miles)
 - State and local jurisdiction ($\pm 38,000$ miles)



What is Eligible?

- Damage which severely impairs the safety, or usefulness of a highway and is not heavy maintenance
- ERFO funds will not be approved to repair or reconstruct facilities affected by long term, pre-existing conditions, or predictable developing situations



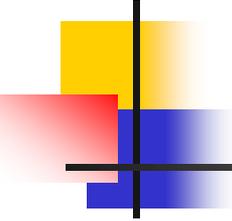
ERFO Program - Summary

What is ERFO

What is Eligible

- Disasters over a wide area OR Catastrophic Failures
- Cumulative damage exceeds \$700,000
- Roads and Bridges on the IRR Inventory
- Serious Damage caused by the event

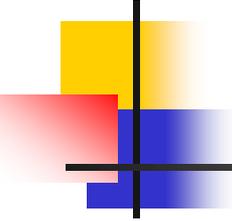
How to Apply



How to Apply - Disaster

BIA applies to FLH Division Offices
(states, counties, and tribes apply
through the BIA)

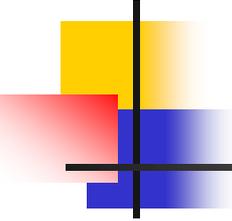
- Phone Call
- Letter (Notice of Intent)
- Supporting Documentation



How to Apply - Disaster

Provide justification for a Positive Finding

- Cause and extent of damage
- Dates of occurrence
- Runoff and rainfall data
- Photographs of specific damage in all areas



Severe Storm Indicators

- Runoff

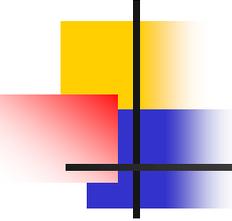
- Current flow conditions, hydrographs, peak flows for any time period

- <http://waterwatch.usgs.gov/new/>

- Runoff frequency

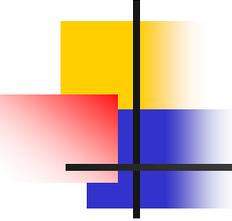
- http://streamstatsags.cr.usgs.gov/gagepages/HTML/*****.htm

- Recurrence interval > 25 year flood



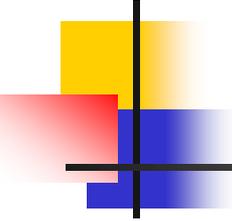
Severe Storm Indicators

- Precipitation
 - Rain gage and Snotel data
 - Local rain gages
 - Snow loss (equivalent water loss over same time period)
 - NOAA Precipitation Frequency Atlas
 - http://www.nws.noaa.gov/oh/hdsc/PF_documents/TechnicalPaper_No40.pdf
 - <http://www.nws.noaa.gov/oh/hdsc/currentpf.htm>
 - Frequency > 25 year return period



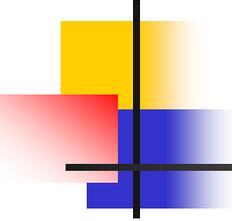
Storm Severity Indicators

- Road damage
 - Wide area not small area
 - High density not sporadic
 - Multiple jurisdictions not only FLMA
 - Heavy damage not heavy maintenance
 - Damage to well maintained facilities not damage to deficient facilities
- FEMA and ER Disaster Approvals



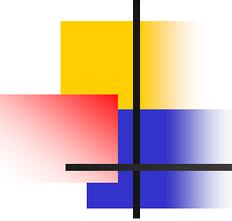
Positive/Negative Finding

- The finding for Natural Disasters will be based on both the extraordinary character of the natural disturbance and the wide area of impact
 - Over \$700,000 of damage
 - Storms of unusual intensity occurring over a small area do not qualify



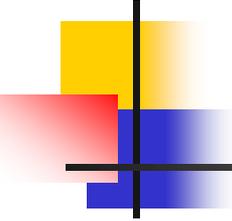
Positive/Negative Finding

- The finding for a Catastrophic Failure will be based on the cause, nature, and impact of the failure
 - Over \$700,000 of damage
 - Sudden and complete failure of a major segment/element of an eligible road
 - Closure because of imminent danger of collapse, or failure primarily attributable to gradual and progressive deterioration does not qualify



How to Apply – The DSR

- Complete a Damage Survey Report (DSR) for each damage site.
 - DSR Form and cost estimate
 - Sketches, photos, quantity calculations
 - Maps, IRR Inventory
 - Bridge Inspection Reports



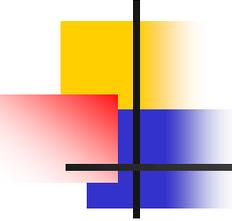
ERFO Program - Summary

What is ERFO

What is Eligible

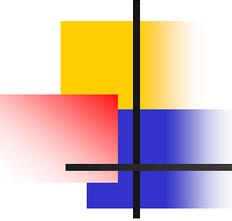
How to Apply

- Apply through the BIA
- Submit supporting documentation for a Natural Disaster/Catastrophic Failure
- Submit a DSR for each site after the Disaster has been approved



Examples of good applications

- Storm runoff exceeded 25 year event over a wide area
- Serious damage in several counties
- Dates of damage is certain
- Pictures that show eligible damage
- Cost estimates based on restoring to pre-disaster conditions



Examples of bad applications

- Little or no effort to document severity of natural disaster and area of impact
- Storms over a small area
- Extensive damage to poorly maintained, pre-disaster deficient facilities
- Dates of damage is uncertain
- No pictures
- Cost estimates padded with heavy maintenance and betterments



When Disaster Strikes

- Take pictures prior to making repairs
- Initiate Emergency Repairs
- Call BIA Regional Office
- Call FLH ERFO Coordinator
 - David Hilgendorf (360) 619-7620