



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT PUBLIC SCOPING MEETING

WELCOME

MEETING PURPOSE

To learn about:

- The Missile Defense Agency
- Long Range Discrimination Radar
- National Environmental Policy Act
- Environmental Impact Statement

Cooperating Agencies



USAF



FAA



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT ABOUT MISSILE DEFENSE AGENCY

MISSION:

To develop and deploy a layered Ballistic Missile Defense System to defend the United States, its deployed forces, allies, and friends from ballistic missile attacks of all ranges and in all phases of flight



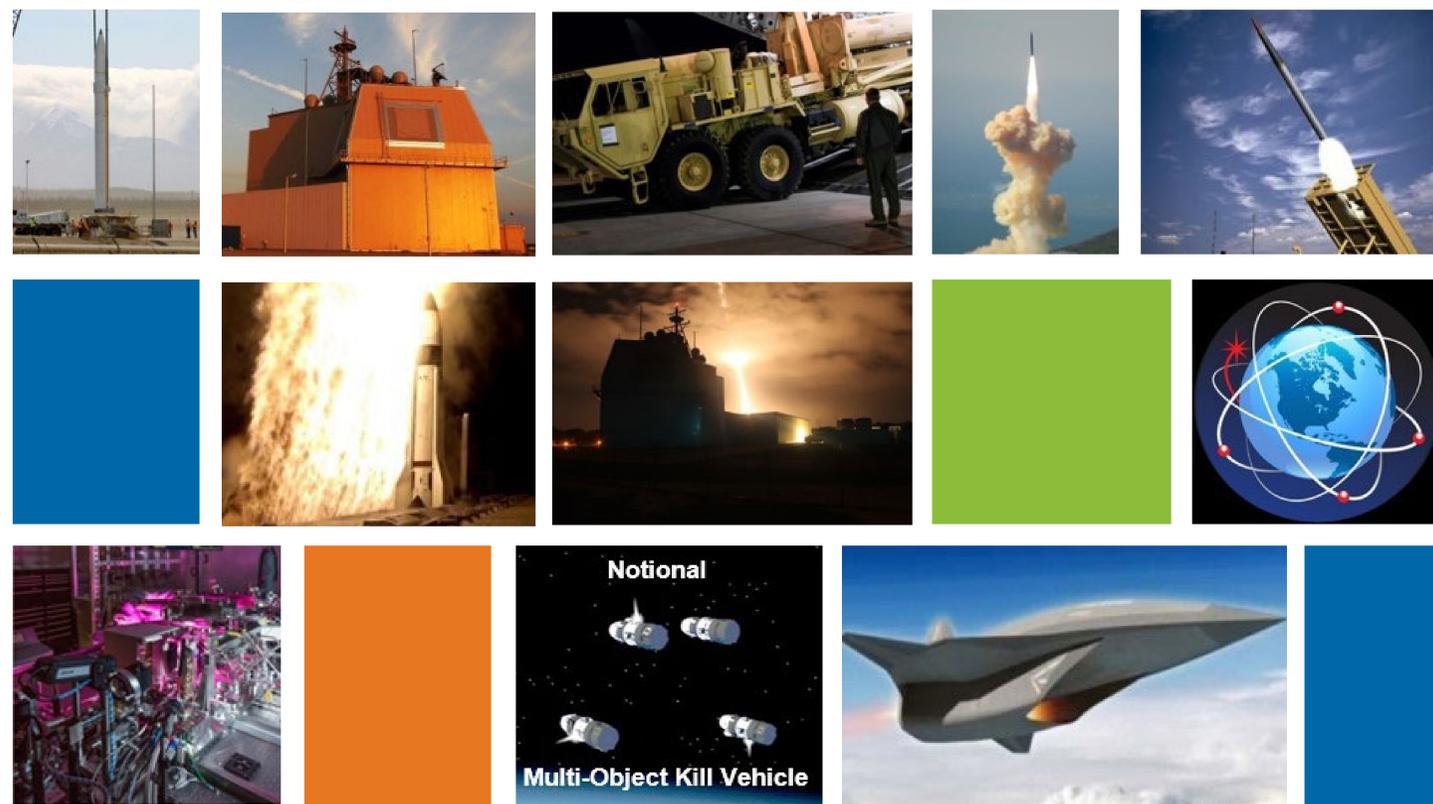
MISSILE DEFENSE CAPABILITY GLOBALLY DEPLOYED



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT MISSILE DEFENSE AGENCY PRIORITIES

IN SUPPORT OF THE NATIONAL DEFENSE STRATEGY

- Continue focus on increasing system reliability to build warfighter confidence
- Increase engagement capability and capacity
- Rapidly address the Advanced Threat



**BMDS Meets Today's Threat but Requires
Additional Capacity and Advanced Capability to
Stay Ahead of the Evolving Threat**



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT TODAY'S BALLISTIC MISSILE DEFENSE SYSTEM

C2BMC Command and Control, Battle Management and Communications

NMCC USSTRATCOM USNORTHCOM USINDOPACOM USEUCOM USCENTCOM

BOOST/ASCENT
Defense Segment

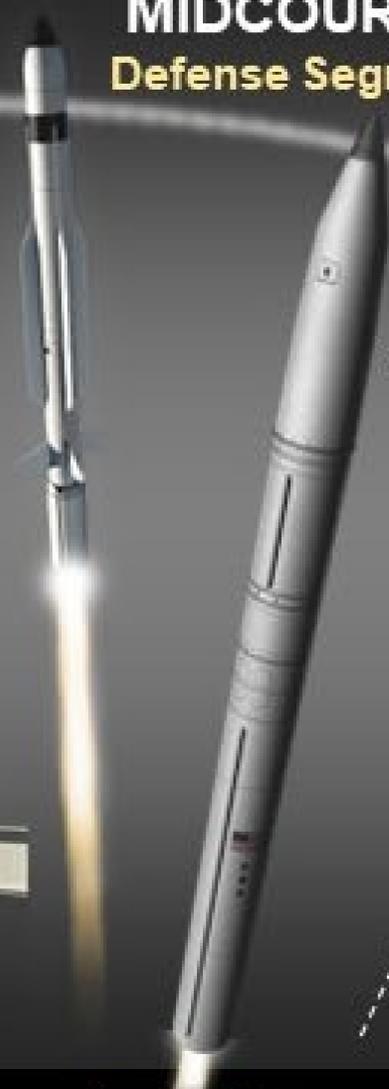
MIDCOURSE
Defense Segment

TERMINAL
Defense Segment



Aegis
Ballistic Missile Defense

SM-3
Standard Missile-3



GBI
Ground-Based Interceptor



Aegis
Sea-Based Terminal



THAAD
Terminal High Altitude Area Defense



PAC-3
Patriot Advanced Capability-3

The System Of Elements

Aegis Ashore



Sensors



Satellite Surveillance



Forward-Based Radar



Upgraded Early Warning Radar



AEGIS BMD SPY Radar

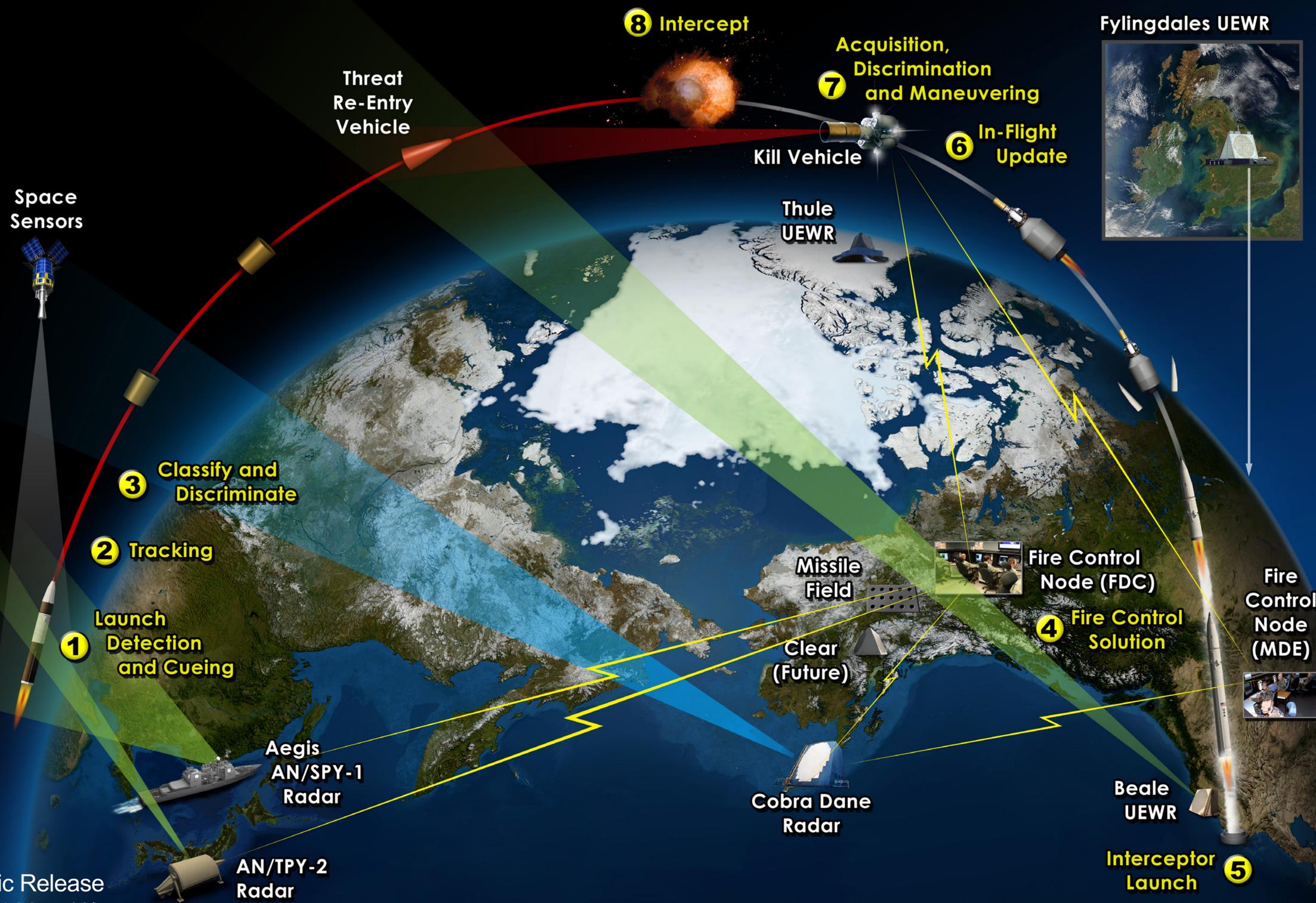


Sea-Based X-Band Radar



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT

HOW MISSILE DEFENSE WORKS



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ACRONYM KEY

AN/SPY1: Army Navy Ship-based Surveillance Radar

AN/TPY2: Army Navy Transportable Radar Surveillance

FDC: Fire Distribution Center

MDE: Major Defense Equipment

UEWR: Upgraded Early Warning Radar



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT WHY IS THE LRDR NEEDED

THE WHAT

The 2014 National Defense Authorization Act requires MDA to deploy an LRDR system to improve the U.S. defense against ballistic missile threats. An LRDR is capable of midcourse identification, classification and discrimination of ballistic missile threats.

THE WHY

Provide long-range acquisition, precision tracking, persistent midcourse discrimination, and hit assessment of ballistic missile threats to support defense of the U.S. Homeland.

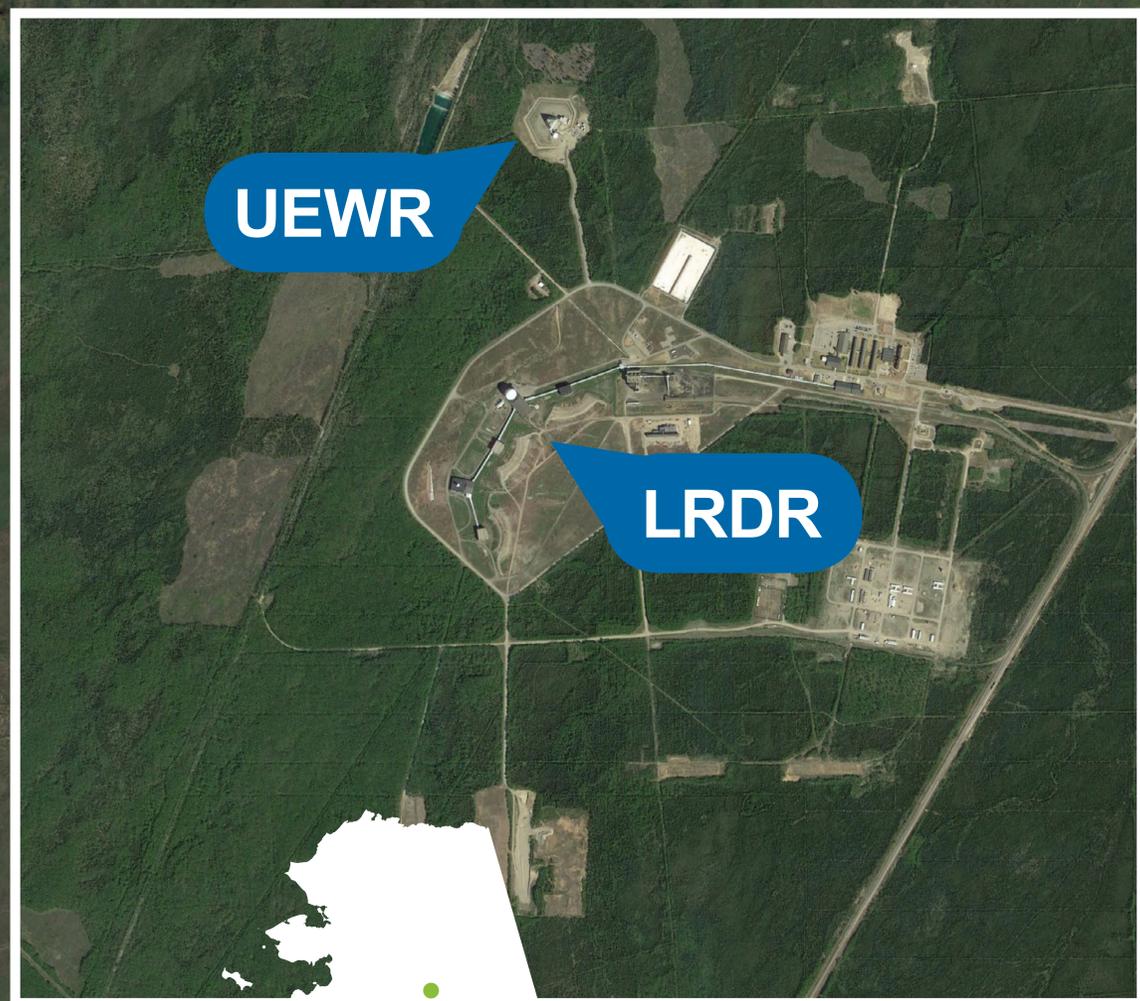
ACRONYM KEY

LRDR: Long Range Discrimination Radar

MDA: Missile Defense Agency



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT PROJECT LOCATION



Clear Air Force Station



Nenana



Anderson



LRDR

ACRONYM KEY

LRDR: Long Range Discrimination Radar UEWR: Upgraded Early Warning Radar

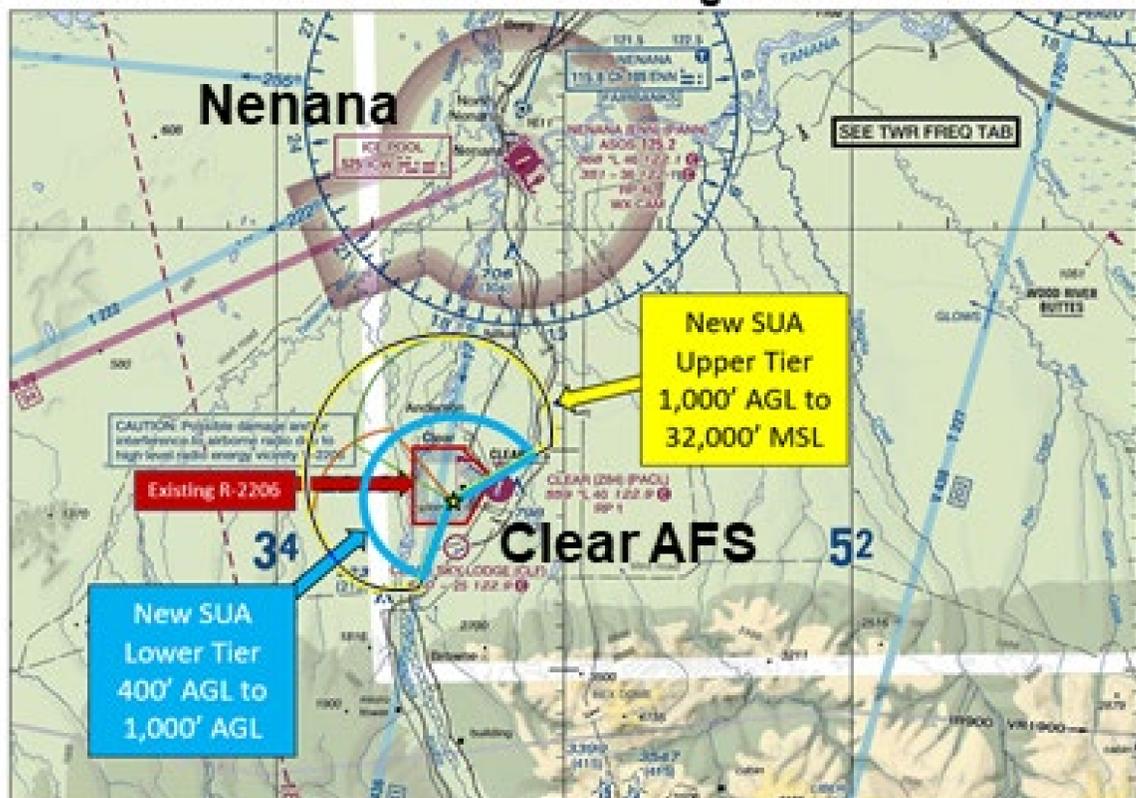
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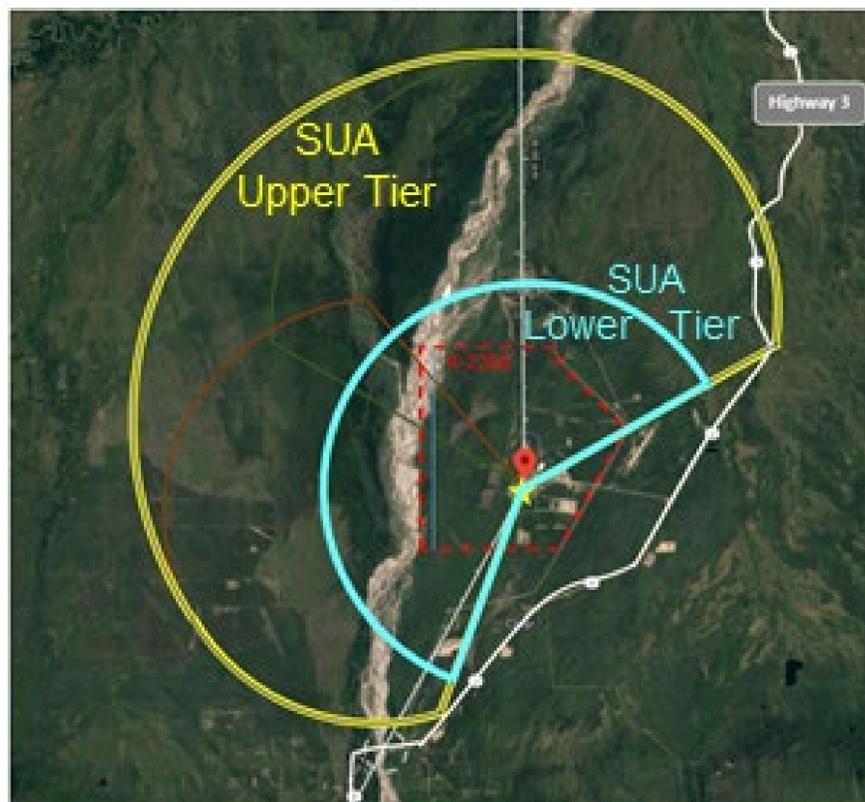
LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT

PROPOSED R-2206

Alaska Sectional Chart with existing R-2206 and draft SUA

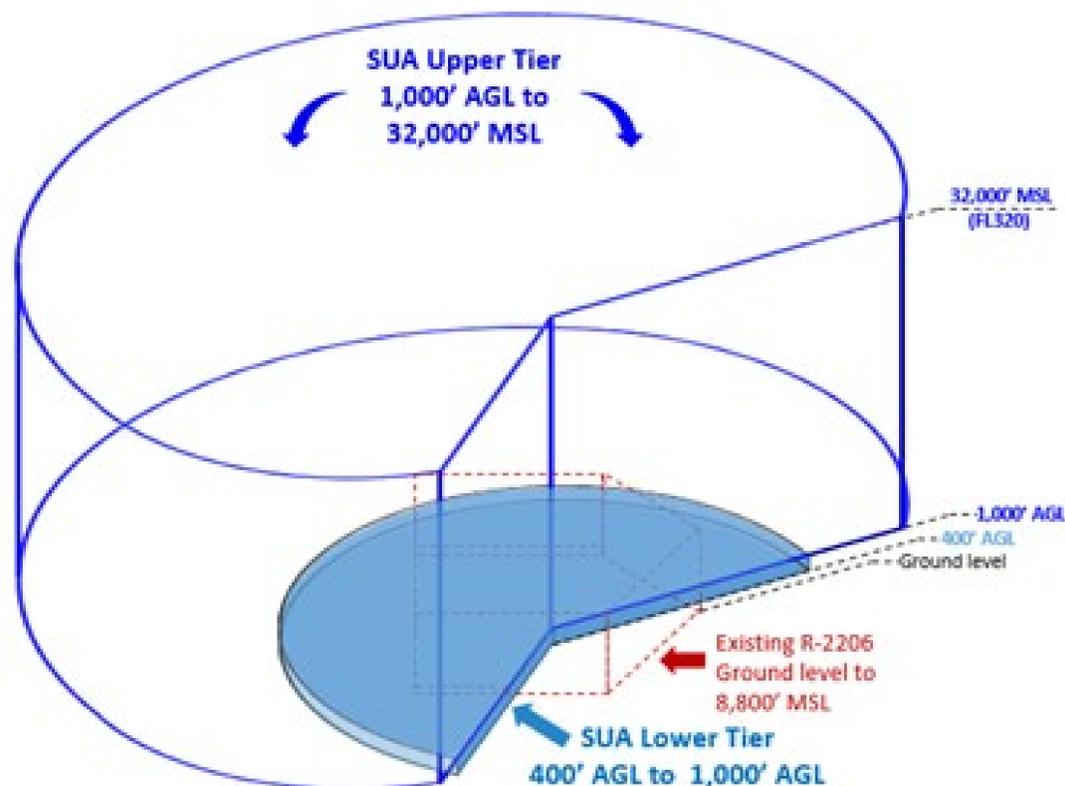


Clear AFS, existing R-2206 and draft SUA

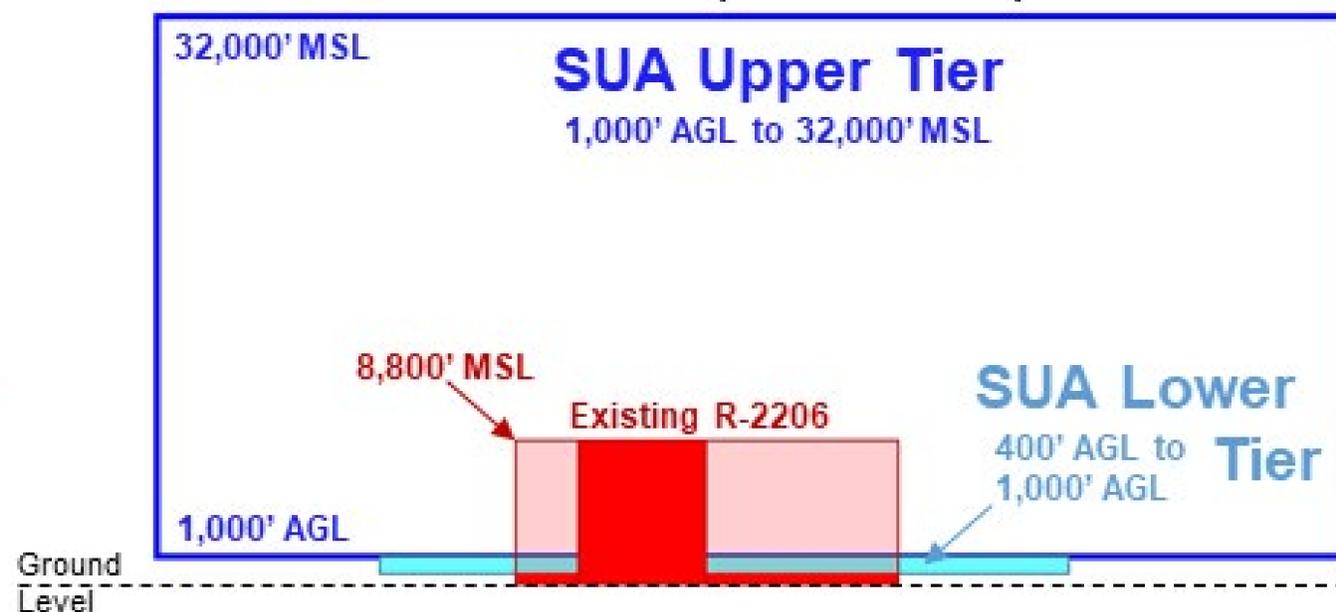


ACRONYM KEY

- AFS:** Air Force Station
- AGL:** Above Ground Level
- LRDR:** Long Range Discrimination Radar
- MSL:** Mean Sea Level
- SUA:** Special Use Airspace



2D Side View of draft LRDR Special Use Airspace at Clear AFS





LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT NATIONAL ENVIRONMENTAL POLICY ACT

In 2016, a joint Environmental Assessment (EA) was prepared to evaluate the potential environmental impacts associated with the deployment of a Long Range Discrimination Radar (LRDR) system at Clear Air Force Station (CAFS). The EA was prepared in accordance with the National Environmental Policy Act (NEPA).

NEPA is a U.S. law that requires federal agencies to identify and analyze the potential environmental impacts of a proposed action before deciding whether to proceed with that action.

This Environmental Impact Statement (EIS) supplements the original EA and evaluates the potential environmental consequences of the proposed additional Special Use Airspace (SUA) necessary for operation of the LRDR to support the defense of the homeland of the United States.





LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT ENVIRONMENTAL RESOURCES TO BE ANALYZED

AIRSPACE & AIR QUALITY
The potential impacts on ambient air quality and airspace usage or encroachment issues.



BIOLOGICAL RESOURCES
The potential impacts on wildlife and vegetation.



CULTURAL RESOURCES
The potential impact on cultural and historic properties.



ENVIRONMENTAL JUSTICE & SOCIOECONOMICS
The potential impact on the population, employment, housing, schools, public services, and environmental justice and from the project area.



GEOLOGY & SOILS
The potential impact on geological and soil conditions in the vicinity of the project area.



HAZARDOUS MATERIALS & WASTE AND HEALTH & SAFETY
The potential impact from hazards to human health or environment, public health and safety issues associated with the construction of the LRDR, as well as public health and safety issues associated with the operation of the LRDR.



LAND USE & RECREATION
The compatibility of existing planned uses (existing, planned, and future) of the land footprint at the proposed site.



WATER RESOURCES
The potential impact on water resources (to include surface water, groundwater, wetlands, and floodplains).



NOISE
The potential impact from any unwanted sound that can disturb routine activities and cause annoyance.



TRANSPORTATION
The potential impact on the movement of personnel, equipment, and materials to and from the project area.



UTILITIES
The potential impact from constructing new lines (above/below ground) and use of existing utilities (such as water, wastewater treatment, electricity, and natural gas).





LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT THE EIS PROCESS

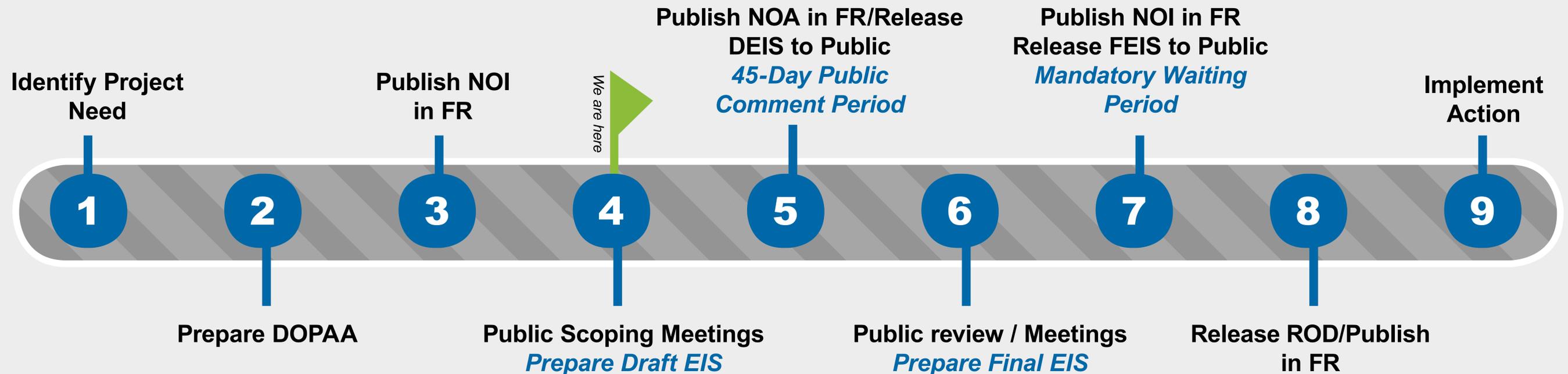
This EIS supplements the 2016 EA and evaluates the potential environmental consequences of the proposed additional SUA necessary for operation of the LRDR to support the defense of the homeland of the United States.

MDA will:

- Gather information about current environmental conditions relating to expansion of SUA.
- Analyze potential impacts from the proposed additional SUA on the existing conditions.
- Prepare the EIS, detailing the potential impacts of the proposed additional SUA.

The scope of analysis is determined in part through public involvement and input. Please share your thoughts with the project team.

LRDR EIS STEPS



ACRONYM KEY

CAFS: Clear Air Force Station
DEIS: Draft Environmental Impact Statement
DOPAA: Description of Proposed Action and Alternatives

EA: Environmental Assessment
EIS: Environmental Impact Statement
FEIS: Final Environmental Impact Statement
FR: Federal Register

LRDR: Long Range Discrimination Radar
MDA: Missile Defense Agency
NEPA: National Environmental Policy Act
NOA: Notice of Availability

NOI: Notice of Intent
ROD: Record of Decision
SUA: Special Use Airspace

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LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT **PURPOSE & NEED**

THE PURPOSE

The purpose of the proposed additional SUA at CAFS is to support LRDR operations and provide protection from HIRF for aircraft operating in the vicinity.

THE NEED

This action is needed as the LRDR's original operational concept did not take into account the planned change in operational tempo and expanded threat space to meet evolving threats. The MDA requires the land-based LRDR to support fielding of enhanced homeland defense capability as a key component of the BMDS.

ACRONYM KEY

BMDS: Ballistic Missile Defense System

CAFS: Clear Air Force Station

EA: Environmental Assessment

EIS: Environmental Impact Statement

HIRF: High Intensity Radiated Fields

LRDR: Long Range Discrimination Radar

MDA: Missile Defense Agency

SUA: Special Use Airspace

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LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT ENVIRONMENTAL ASSESSMENT JUNE 2016

THEN

- Based on initial radar design and DoD adversary threat assessment
- Would have 24/7/365 readiness posture
- Could rapidly assume wartime posture in response to real-world events
- Would utilize information from CAFS air traffic to ensure aircraft would not encounter excessive HIRF levels
- Required no changes to existing Restricted Airspace R-2206
- **Resulted in Finding of No Significant Impact**

NOW

This EIS supplements the 2016 EA and evaluates the potential environmental consequences of the proposed additional SUA necessary for operation of the LRDR to support the defense of the United States.

ACRONYM KEY

CAFS: Clear Air Force Station

DoD: Department of Defense

EA: Environmental Assessment

EIS: Environmental Impact Statement

HIRF: High Intensity Radiated Field

LRDR: Long Range Discrimination Radar

SUA: Special Use Airspace

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LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT

What's different from the 2016 EA?

- Real-World adversary threat evolution has significantly changed operational tempo and expanded LRDR threat space.
- Current Restricted Airspace at CAFS (R-2206) is not sufficient to completely protect aircraft from HIRF.
- Requires 24/7/365 search (radiate) operations.
- Requires Expanded Special Use Airspace.
- May Impact:
 - Nearby Clear Air Airport and Sky Lodge Airport
 - Local low-altitude flights
 - Federal Airway V-436, 8,800 – 18,000'
 - Jet Route J-125, 18,000 – 60,000'
- Continuous 24/7 operations
- No changes to siting or construction activities

ACRONYM KEY

CAFS: Clear Air Force Station

HIRF: High Intensity Radiated Field

SUA: Special Use Airspace



LONG RANGE DISCRIMINATION RADAR SPECIAL USE AIRSPACE ENVIRONMENTAL IMPACT STATEMENT INPUT AND COMMENTS

Your input is valuable! Please provide comments by:



Submit written comments
here at the meeting tonight



Verbal recorded comments
here at the meeting tonight



Email Comments to:
info@cleareis.com



Mail written comments to:
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