



Revolutionizing Environment, Safety, and Occupational Health (ESOH) in Systems Engineering to Meet Rapid Prototyping/Fielding Under the Middle Tier of Acquisition

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NAVAIR

Products

Full Life-Cycle Management

Requests,
Risks from Fleet,
OPNAV

Material
Solution
Analysis

Technology
Maturation &
Risk Reduction

Engineering and
Manufacturing
Development

Production &
Deployment

Operations &
Support



Tactical Aircraft



Air ASW, Assault & Special Mission



Unmanned Aircraft & Strike Weapons



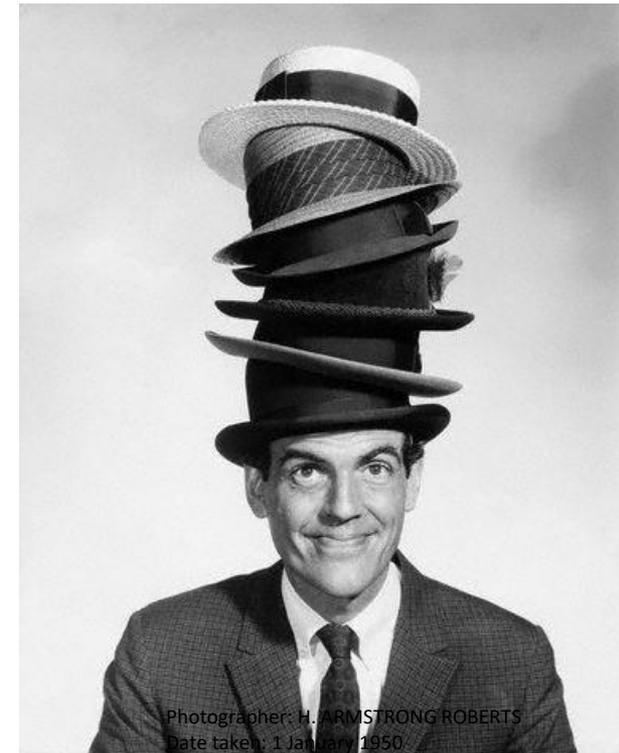
Common Systems, Mission Systems, Training,
ALRE





ESOH in History

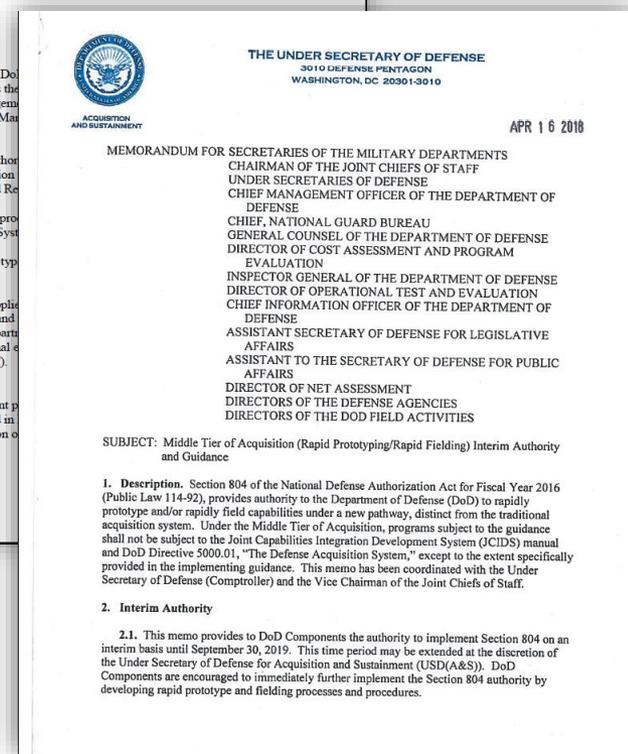
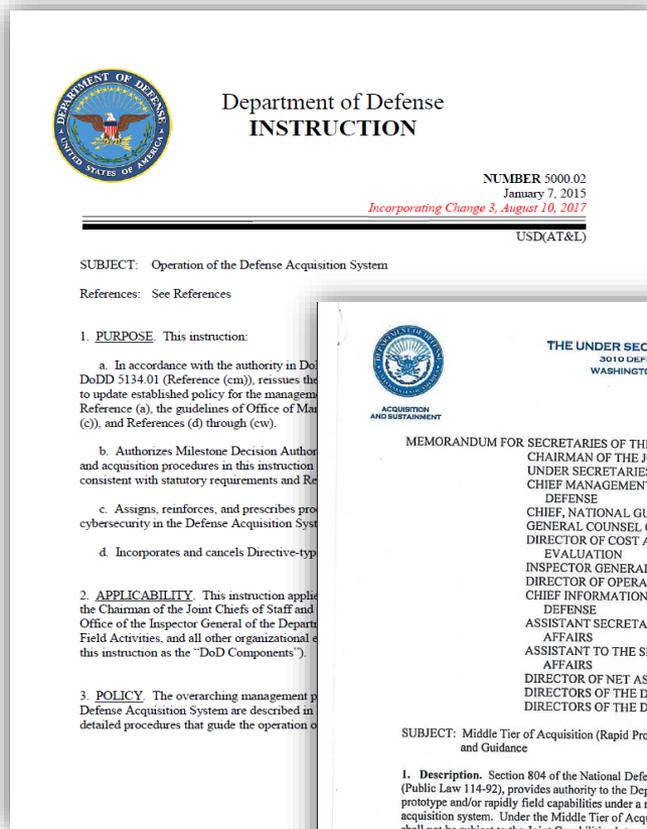
- ESOH Compliance
- National Environmental Policy Act / Executive Order 12114
- Safety and Occupational Health
- Hazardous Materials
- Pollution Prevention
- Energy
- Disposal





Challenges

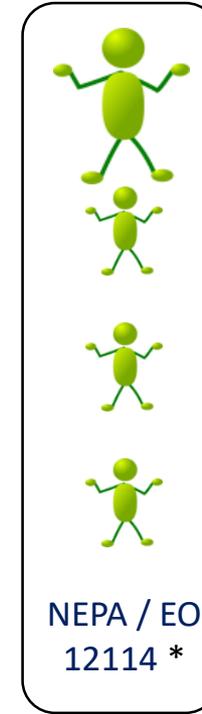
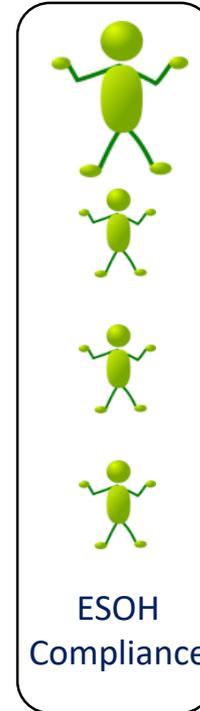
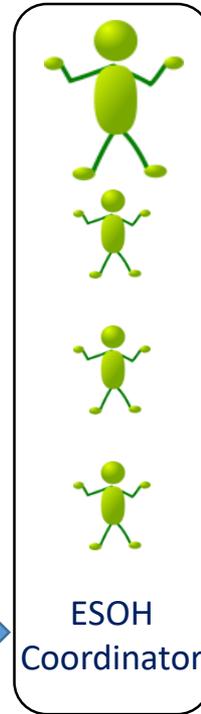
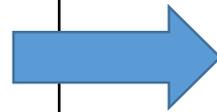
- Sustainable Infrastructure
- Training
- Rapid ESOH



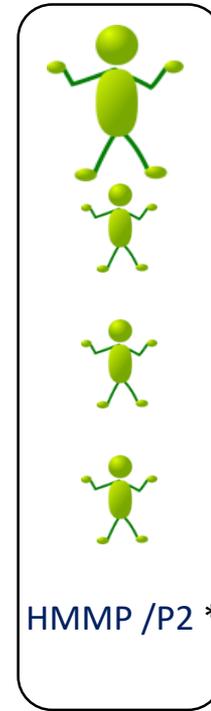


Path Forward

- ESOH Acquisition Coordination and Documentation
- ESOH Compliance
- National Environmental Policy Act / Executive Order 12114
- Hazardous Materials Management Program (HMMP)
- Pollution Prevention (P2)
- Safety and Occupational Health
- Energy
- Disposal



*Science and Technology



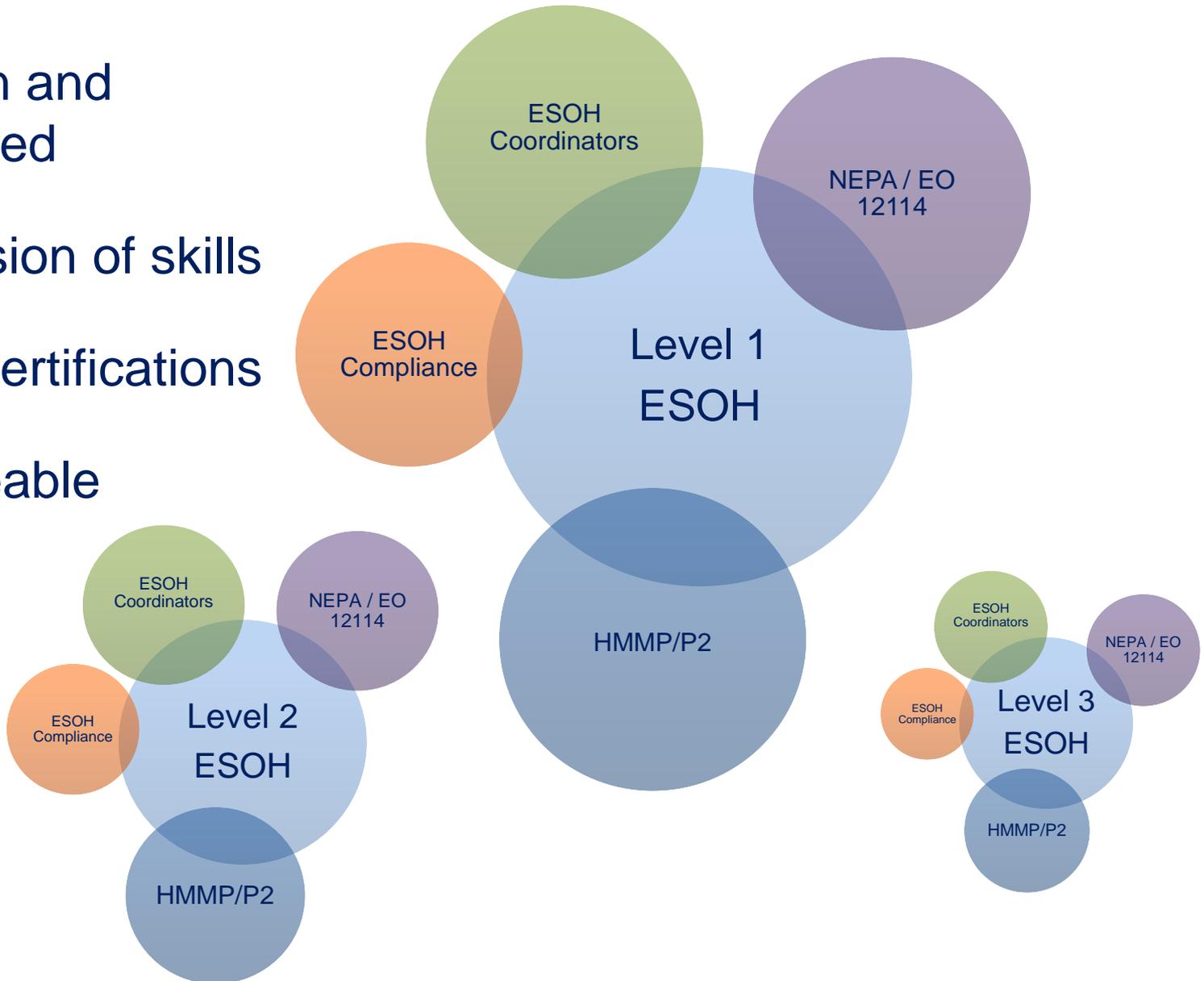
Defined and Measurable

- ✓ Roles and Responsibilities
- ✓ Levels of Expertise
- ✓ Products
- ✓ Training



Develop Training and Certification

- Common and specialized
- Progression of skills
- Career certifications
- Measureable





Efficiency Tools

NEPA/EO 12114 Team

The screenshot shows a data management application with a table of documents. The table has columns for Document Title, Date Signed, Program Office, Category, Activity Time, ID, Aircraft Covered, and NAS Pat Website. A dialog box titled 'Enter Parameter Value' is open, asking 'Which ProgramOffice?' with 'OK' and 'Cancel' buttons.

| Document Title | Date Signed | Program Office | Category | Activity Time | ID | Aircraft Covered | NAS Pat Website |
|---|-------------|----------------|----------|---------------|----|------------------|-----------------|
| Final Environmental Impact Statement: Increased Flight and Related Operations in the Patuxent River Complex, Patuxent River, Maryland | 12/1/1998 | PMA000 | EIS | | 71 | | NAS Pat Website |

HMMP/P2 Team

- Centralized data for programs across NAVAIR supported by the Team
- Reduces data call response time
- Assists with identifying data gaps for efficient document production

The screenshot shows the Hazardous Material Information Tool interface. It displays details for Methyl Isobutyl Ketone (MIBK), including CAS number 108-10-1, production model, and applicable legislation.

Hazardous Material Information Tool

CAS: 108-10-1 Name: Methyl Isobutyl Ketone (MIBK); 4-Methyl-2-pentanone

| Material on Platform | Production Model | 0.91 | 0.00 | 1.00 |
|------------------------|----------------------|------|------|------|
| Total weight in pounds | Outer Wing Panel Kit | | | |
| | Aerial Refueling Kit | | | |
| | INMARSAT | | | |

HAZMAT Category: Restricted Restricted Restricted Restricted

HAZMAT Group

Applicable Legislation

| U.S. Legislation | International Legislation |
|--|--|
| NAVAIR CoCL <input checked="" type="checkbox"/> | RoHS <input type="checkbox"/> |
| NAS 411-1 <input checked="" type="checkbox"/> | REACH Restriction List <input type="checkbox"/> |
| Section 302 <input type="checkbox"/> | REACH Candidate List (SVHC) <input type="checkbox"/> |
| Section 313 <input checked="" type="checkbox"/> | SVHC Addition Date <input type="text"/> |
| 40 CFR 302.4 <input checked="" type="checkbox"/> | REACH Authorisation List <input type="checkbox"/> |

Uses: Used as a solvent for gums, resins, paints and coatings, primers, varnishes, lacquers, cleaning compounds, adhesives, sealants, lubricants, and nitrocellulose.

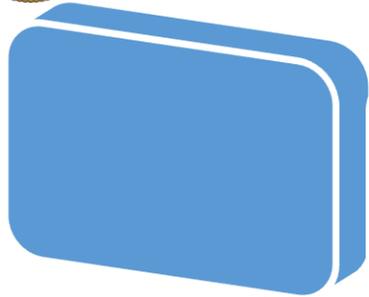
Exposure Risk: Inhalation and skin exposure health hazard, flammable with environmental restrictions. Acute (short-term) exposure to methyl isobutyl ketone may irritate the eyes and mucous membranes, and cause weakness, headache, nausea, lightheadedness, vomiting, dizziness.

Disposal

Record: 28 of 575 No Filter Search



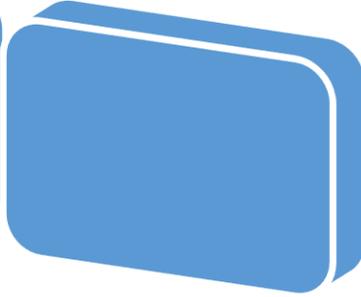
Rapid ESOH



ESOH
Coordinator



NEPA/EO 12114



HMMP/P2



ESOH
Compliance





Additional Information

2017 Chief of Naval Operations Environmental Awards: Environmental Excellence in Weapon System Acquisition – Large Program

<http://www.navair.navy.mil/index.cfm?fuseaction=home.NavairNewsStory&id=6848>



Questions