The Human Side of Enviro

Cultivating a culture of compliance and beyond
The challenge
WHAT DO I ACTUALLY DO?
HOW CAN I BE MOST EFFECTIVE?

- WATER POLLUTION
- AIR POLLUTION
- HAZMAT/WASTE
- ECO ADMIN
- SPILL REPORTING
- GREEN FLEET
- NPDES
- HAZCOM
- SOLID WASTE
- SLEEP
- SLEEP
- SAFETY (drills, etc)
- PROPERTY
- REPAIRING & MAINTAINING EQMT
- OOD LETTER
- COLLABORAL DUTIES
- OOD LETTER
- COLLATERAL DUTIES
- BWM
<table>
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![Image of a NOAA ship](image-url)
Procedures alone don’t work

- ECO DUTIES 0701-XX
- NPDES 0701-06
- WASTE WATER 0701-18
- BALLAST WATER 0701-02
- OILY MATERIALS MNGT
- FUEL OIL TRANSFER 0601-01
- SOPEP 0701-03
- HAZCOM 0701-04
- HAZWASTE 0701-05
- HAZMAT 0701-XX
- MISSION HAZMAT 0701-22
- SOLID WASTE 0701-19
- AIR POLLUTION - ODS & Fueling
- HEARING CONSERVATION 1701-04

Green Fleet Work
* LEDs * Energy Efficiency *
II. TRAINING YOUR PEOPLE

Hit the ground running
Enviro Training

- ECO Workshop
  - Five Day Crash course on ALL ENVIRO REGS
- Oil Record Book
- CO one-on-one (ship specific for new COs)
- NOAA-specific HAZWOPER
- And more

But let’s take a look at the elements that make these trainings work…
Why does our training work?

• Specific to the audience

• Not JUST webinars and slide clicking

• The audience members take the lead

• It comes with resources and tools to guide the individual AFTER training (more on that in a moment)
What do we teach at ECO Workshop?

CLARIFY ECO DUTY: WHAT IS REQUIRED; WHAT IS RECOMMENDED

* KNOWLEDGE & INFO: STUFF YOU MUST KNOW; STUFF YOU MUST BE ABLE TO FIND

* TOOLS: MAXIMIZE YOUR PRODUCTIVITY & ASSIST W/ ENGAGING OTHERS

* IDENTIFY PRIORITIES: FOR YOUR SHIP & DOCUMENT IN ECO ACTION PLAN

* SHARE & LEARN: FROM ONE ANOTHER’S EXPERIENCES
Training is just the beginning

III. SUPPORTING YOUR PEOPLE
# Resources & Tools

**DISCHARGE RESTRICTIONS**

All discharges are prohibited without permission from bridge.

<table>
<thead>
<tr>
<th><strong>DISTANCE FROM SHORE</strong></th>
<th><strong>BLACKWATER</strong></th>
<th><strong>MSD</strong></th>
<th><strong>GRAYWATER</strong></th>
<th><strong>WET GARBAGE</strong></th>
<th><strong>INCINERATOR</strong></th>
<th><strong>OWS</strong></th>
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<tr>
<td>&lt; 3NM from land</td>
<td>SECURE</td>
<td>MINIMIZE</td>
<td>SECURE</td>
<td>SECURE</td>
<td>SECURE</td>
<td>SECURE</td>
</tr>
<tr>
<td>3-12NM from land</td>
<td>SECURE</td>
<td>AUTHORIZED</td>
<td>MACERATED</td>
<td>SECURE</td>
<td>SECURE</td>
<td>SECURE</td>
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<tr>
<td>&gt; 12NM from land</td>
<td>SECURE</td>
<td>AUTHORIZED</td>
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1. Blackwater & MSD discharge is prohibited in all No Discharge Zones (NDZ).
2. Discharge may be permitted if operationally necessary; contact CO or ECO with questions.
3. Incinerator operations are prohibited in ports, harbors, and estuaries and should be minimized.

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**2013 Environmental Compliance Officer Action Plan - NDZ Ship**

- **Weekly:**
  - Routine Visual Inspection - BW required within 3NM.
  - Spell D18 (or HAZMAT) log.
  - Spell Equipment Inventory:
    - Secured G12, G13, and D08 logs.
- **Monthly:**
  - Review SOP/MP, hand updated.
  - Introduce ECO to OODs.
  - Audit HAZMAT/OPR (for CO & OOD team).
  - Introduce HAZMAT.
  - Introduce Training.
- **Semi-Annual:**
  - Review & report on ECO.
  - Review OOD log.
  - Introduce ECO & Safety/Enviros Policy.
  - Introduce ECO & Safety/Enviros Policy.
  - Ensure ECO's working knowledge for Special Areas.

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Customer Support

• They’ve got training
• They’ve got resources and tools
• They also have us to help nearly 24/7
Now you get even better

IV. GOING BEYOND COMPLIANCE
Green Fleet Projects

- Reusable shipboard mugs
- Onboard recycling
- EALs
- LED Lighting
- Vessel Fuel Management System

What is an EAL?
An environmentally acceptable lubricant (EAL) is a VGP compliant lubricant. EALs are:
- biodegradable
- minimally toxic
- not bioaccumulative
... as defined in Appendix A of the 2013 VGP

EAL Base Oil Selections
- Soybean, canola, sunflower plus blends
- Other vegetable and tree oils
- PAO
- Synthetic esters

https://www.lelubricants.com/environmentally-acceptable-lubricants.html
Analyzing our spills

- Okay we now know WHAT to report, WHEN to report, and WHO needs to know
- What can we do with that info? Maybe if we collect it and look deeper, we can see some common root causes and prevent some repeat spills...
Overall…

- Audience specific training to help people know what they know, and know what they don’t know.

- If they don’t know something, they know where to turn to for help. Either tool, resource, or us.

- This is increasing our compliance and shifting our overall culture from “ugh what a pain” to “yeah this is the thing we do.”