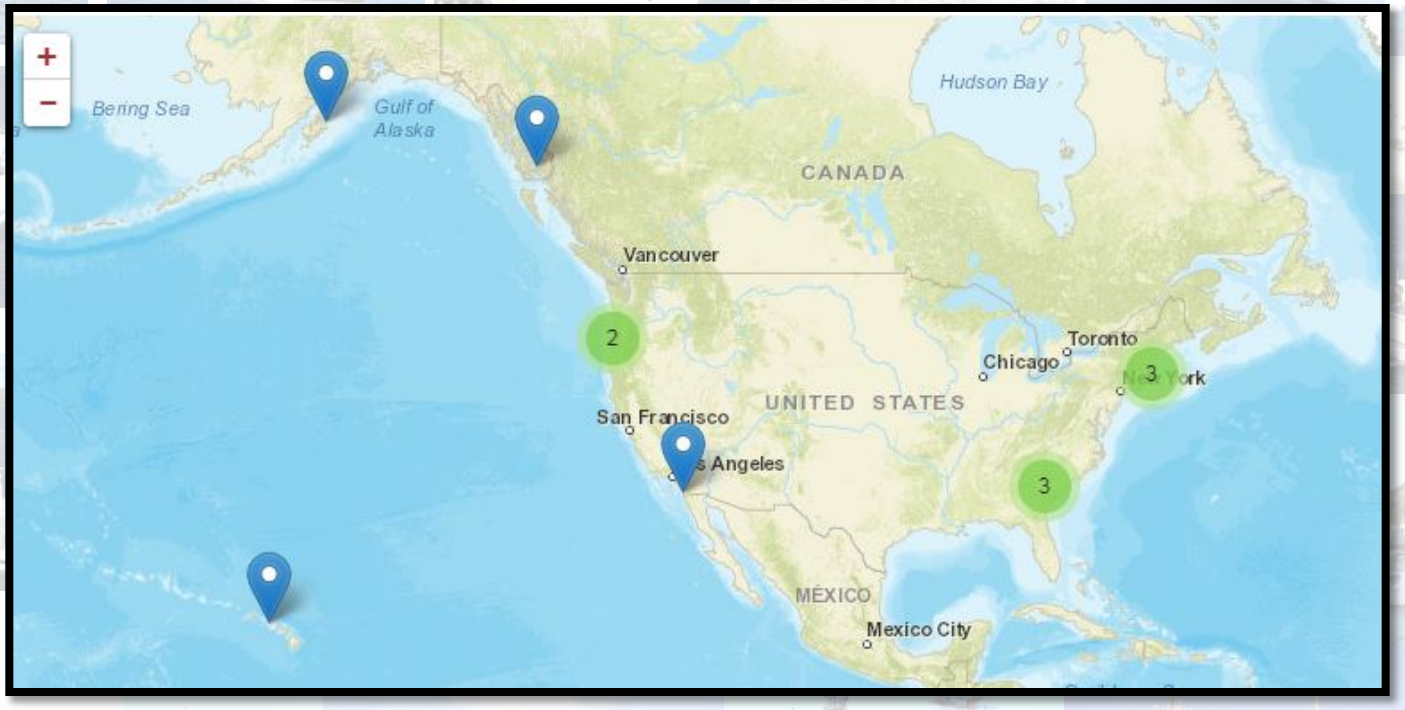
The Human Side of Enviro

Cultivating a culture of compliance and beyond

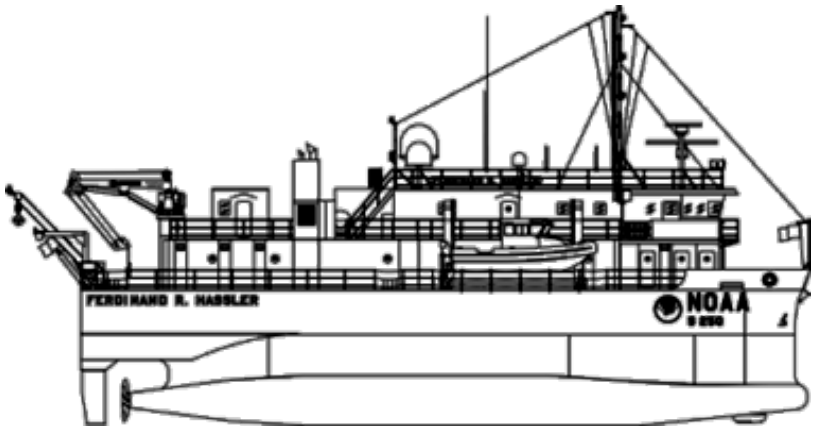
The challenge



WHAT DO I ACTUALLY DO?
HOW CAN I BE MOST EFFECTIVE?
WATER POLLUTION
AIR POLLUTION
HAZMAT/ WASTE
ECO ADMIN
SPILL REPORTING
HAZCOM
SOPEP
SOLID WASTE
NPDES
GREEN FLEET
BWM
SLEEP
SAFETY (drills, etc)
OOD LETTER
COLLATORAL
REPAIRING & MAINTAINING EQMT
PROPERTY

Human Side of Enviro

1. Procedures are nice… but not enough
2. Training Your People
3. Supporting Your People
4. Going Beyond Compliance
5. Questions



Procedures alone don't work

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

Green Fleet Work
* LEDs * Energy Efficiency *

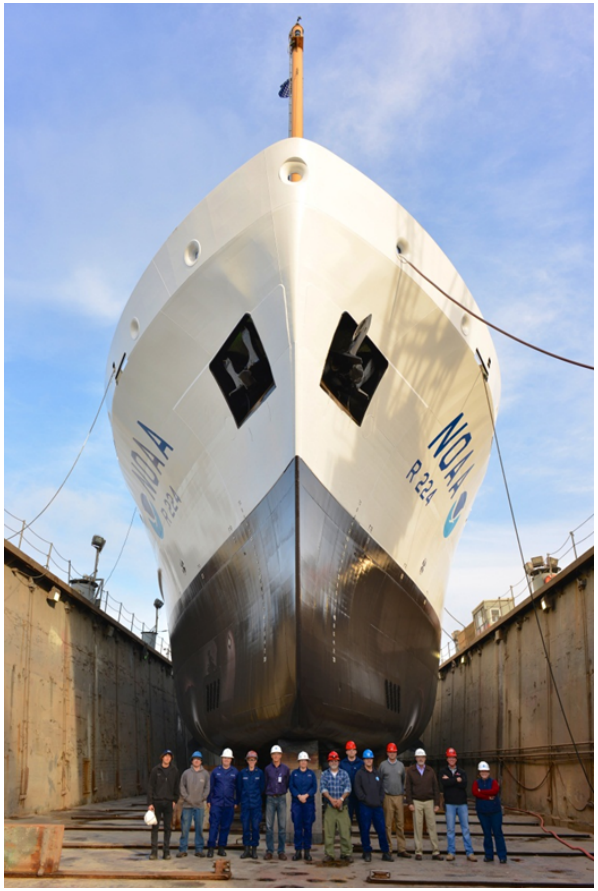
Hit the ground running

II. TRAINING YOUR PEOPLE

Enviro Training

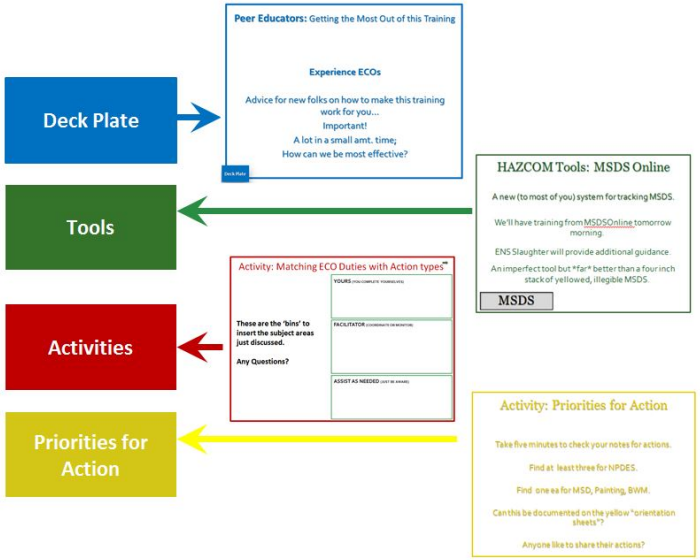
- ECO Workshop
  - Five Day Crash course on ALL ENVIRO REGS
- Oil Record Book
- CO one-on-one (ship specific for new COs)
- NOAA-specific HAZWOPER
- And more

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

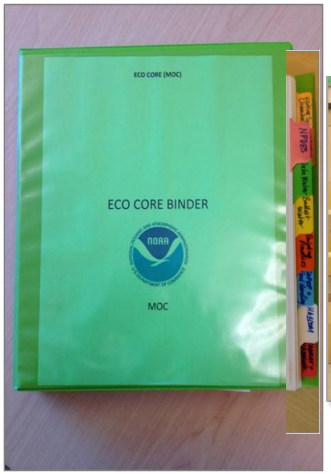
*

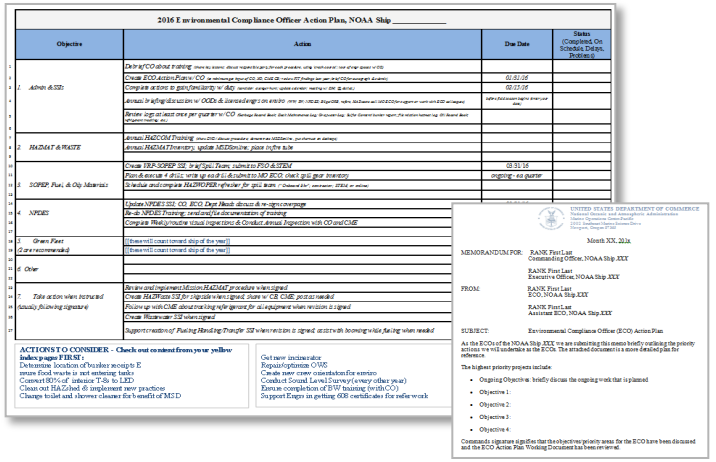
SHARE & LEARN: FROM ONE ANOTHER'S EXPERIENCES

Training is just the beginning

III. SUPPORTING YOUR PEOPLE

Resources & Tools





2016 Environmental Compliance Officer Action Plan, NOAA Ship _____

	Objective	Action	Due Date	Status (Completed, On Schedule, Delayed, Deferred)
1.	Admin & SSE:	Debrief CO about training (share key points about required training for each crewmember, using "crawl-walk-run" or other good way to do)		
		Create ECO Action Plan w/ CO (to encourage input of CO, XO, Chief ET, Bridge, key per-eval QA personnel, Academy)	01/31/16	
		Complete actions to gain/familiarity w/ ABS (operator assignment, update credential, training in SSE & other)	03/15/16	
		Annual: briefing/discussion w/ OODs & licensed engr on entire crew on changes, MSD, SSE, & other (after fresh water engine, emergency steering, etc)		
		Review: log at least once per quarter w/ CO (Garbage Record Book, Fuel Maintenance log, Oil record log, Ballast Water Management log, Engine Room Bunker report, Fuel related turnover log, Oil Record Book, refrigerant tracking, etc.)		
2.	HAZMAT & WASTE	Annual: HAZCOM Training (train ENG about procedures, dissemination SSE/how to, purchase & storage)		
		Annual: HAZMAT Inventory; update MSDSOnline; paint in/fire tube		
3.	SOPEP, Fuel, & Oily Materials:	Create WRP-SOPEP SSE, brief Spcl Team, submit to PSO & STEM	03/31/16	
		Plan & execute 4 drills; write up each & submit to MSO ECO; check spill gear inventory	ongoing - as quarter	
		Schedule and complete HAZWOPER refresher for spcl team (Command brief, assessment, STEM, or online)		
4.	NPDES	Update NPDES SSE: CO, ECO, Dept Heads discuss & re-sign coverage		
		Re-do NPDES Training: enclosed file documentation of training		
		Complete Weekly/routine visual inspections & Conduct Annual Inspection with CO and CME		
5.	Green Fleet (Crew recommended)	[Ensure will count toward ship of the year!]		
		[Ensure will count toward ship of the year!]		
6.	Other			
7.	Take action when instructed (Actually, following signature)	Review and Implement Motion HAZMAT procedure when signed		
		Create HAZWaste SSE for chipside when signed; share w/ CS, CME, post as needed		
		Follow up with CME about tracking refer permit for all equipment when revision is signed		
		Create Wastewater SSE when signed		
		Support creation of Fueling Handling/Transfer SSE when revision is signed; assist with Sounding while fueling when needed		

ACTIONS TO CONSIDER - Check out content from your yellow index pages FIRST:
Determine location of Nozzler receipts E
ensure food waste is not entering tanks
Convert 80%+ of interior T-8s to LED
Clean out HAZshed & implement new practices
Change toilet and shower cleaners for benefit of MSD

Get new incinerator
Repair hydrotermin OWS
Create new crew orientation for enviro
Conduct Sound Level Survey (every other year)
Ensure completion of BW training (with CO)
Support Engrs in getting 608 certificates for refer work

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Marine Operations Center-Pacific
2002 Ala. Department of Navy
Newport, Oregon 97365

Month XX, 20XX

MEMORANDUM FOR: RANK First Last
Commanding Officer, NOAA Ship XXX

RANK, First Last
Executive Officer, NOAA Ship XXX

FROM: RANK First Last
ECO, NOAA Ship XXX

RANK First Last
Assistant ECO, NOAA Ship XXX

SUBJECT: Environmental Compliance Officer (ECO) Action Plan

As the ECOs of the NOAA Ship XXX we are submitting this memo to briefly outlining the priority actions we will undertake as the ECOs. The attached document is a more detailed plan for reference.

The highest priority projects include:

- Ongoing Objectives briefly discuss the ongoing work that is planned
- Objective 1:
- Objective 2:
- Objective 3:
- Objective 4:

Commander's signature signifies that the objectives/priority areas for the ECO have been discussed and the ECO Action Plan Working Document has been reviewed.

DISCHARGE RESTRICTIONS

ALL DISCHARGES ARE PROHIBITED WITHOUT PERMISISON FROM BRIDGE

	DISTANCE FROM SHORE		
DISCHARGE	< 3NM from land	3-12NM from land	> 12NM from land
BLACKWATER[1]	SECURE	SECURE	AUTHORIZED (log status of discharge in deck log or other location)
MSD[1]	MINIMIZE[2] (log status of MSD in deck log or other location)	AUTHORIZED (log status of MSD in deck log or other location)	AUTHORIZED (log status of MSD in deck log or other location)
GRAYWATER	MINIMIZE[2] (log in GW log)	AUTHORIZED	AUTHORIZED
WET GARBAGE	SECURE	MACERATED (log in GRB)	AUTHORIZED (log in GRB)
INCINERATOR	SECURE/ MINIMIZE[3] (log in GRB; also log in ORB if waste stream constains sludge)	MINIMIZE[3] (log in GRB; also log in ORB if waste stream constains sludge)	AUTHORIZED (log in GRB; also log in ORB if waste stream constains sludge)
OWS	SECURE/ MINIMIZE[2] (log in ORB)	AUTHORIZED (log in ORB)	AUTHORIZED (log in ORB)

[1] Blackwater & MSD discharge is prohibited in all No Dischrage 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

2018 Environmental Compliance Officer Checklist NOAA Ship _____

Weekly
Routine Visual Inspection- RVI required within 3 nm. MAKE AN ENTRY IF YOU ARE OUTSIDE OF 3 NM. If a week is left blank we will assume you didn't complete a required RVI and it will be reported as such in your AI&R.

Quarterly
Spill Drill (Oil or HAZMAT)
Q1__ Q2__ Q3__ Q4__
Spill Equipment Inventory
Q1__ Q2__ Q3__ Q4__
Check GW, DM, and GRB logs
Q1__ Q2__ Q3__ Q4__

Annual
__Create Ships ECO Action Plan (brief CO & submit)
__Discharge Matrix briefing to OODs & EOWs (incl logs)
__Spill Team Meeting
__Review SOPEP, send updated Att A to DMS/EMB
__Coord HAZWOPER (for you & the team)
__HAZMAT Inventory
__HAZCOM Training (Right to Know)
__Update MSDSOnline
__NPDES Annual Inspection and Report w/ records
__Review Fleet Inspection findings for enviro
__Review ODS Logs
__Introduce EMS & Safety/Enviro Policy to all hands
__Check season's working ground for Special Areas

Semi-Annual
__ __Check bunker reports for S content
__ __Review ORB (at CO's discretion)
__ __Check in w/ DH's on HAZwaste mngt

Biennial
__Sound Survey & briefing/memo of results to all hands
__Passdown
__New ECO Designation Memo
__Review HAZCOM Plan
__Review NPDES SSI, re-sign
__Ballast Water Management Training
__All hands NPDES Training
__Check with Port Engr about EALs (at CO's discretion)
__Check with CME about 608 certificates (for refers/ODS)

As Needed
__Debrief Spills & Create Corrective Action Assm't
__Work w/ Ops on Mission Haz load/unload
__New Crew Enviro Orientation
__Enviro All Hands discussion/overview
__Check in w/ DHs re RVIs (your findings, their guidance)
__Determine your role in BWM, assist w/ training
__Attend ORB training (at CO's discretion)
__ Read the Fueling DOI, learn the FO tank air vents, understand the high risk points

NOAA
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

Customer Support

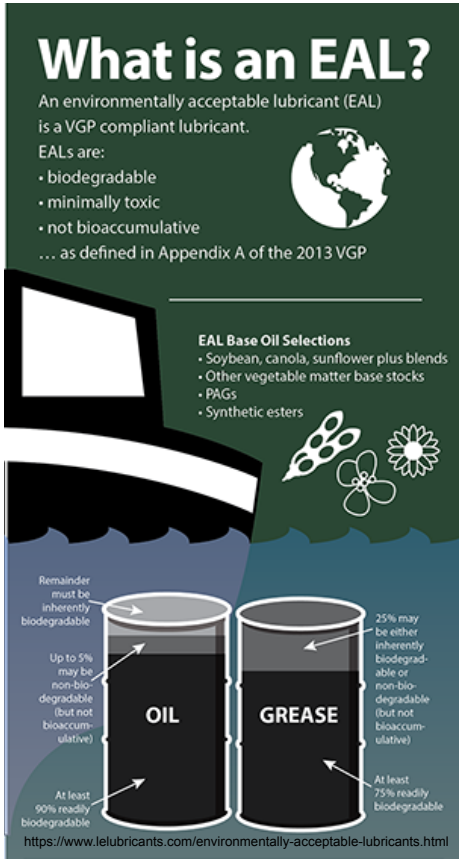
- They've got training
- They've got resources and tools
- They also have us to help nearly 24/7

Now you get even better

IV. GOING BEYOND COMPLIANCE

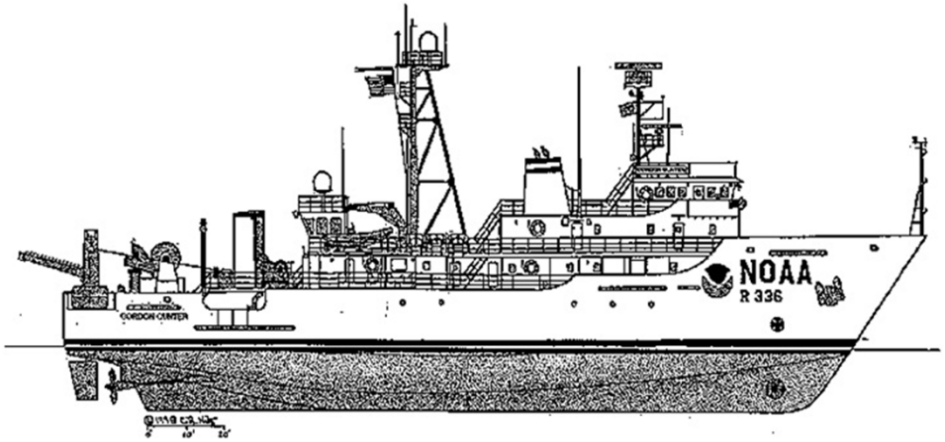
Green Fleet Projects

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



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."