# National Center for Coastal Ocean Science



Environmental Management System Implementation August 2005

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# Environmental Management Systems (EMS) were established to manage the environmental components of operations effectively and efficiently

- In the early 1990's many organizations recognized that environmental issues were becoming a critical component of their operations and established risk-based business systems to manage these issues
- In 1995 the International Organization for Standardization (ISO) developed a standard, ISO 14001, that describes a standardized set of elements that comprise an environmental management system
- In 2000 the Presidential Executive Order (EO) 13148 Required Federal Agencies to implement Environmental Management Systems at appropriate facilities by December 31, 2005
- In XXXX NCCOS established an Environmental Policy confirming its commitment to implement an EMS for NCCOS as a single organization including each of its laboratories

# The EMS ties together an organization's environmental programs into a single integrated system that can be leveraged to drive improvement



### **Increase Efficiency -**

Reduce costs

Free up personnel

**Compress schedules** 

**Increase capacity** 

#### Increase Control Over Risks -

Avoid breaks in operational continuity

Accurately pinpoint weaknesses & future failures

Efficiently focus resources on weaknesses

### **Improve Performance**

Reduce environmental impacts

Avoid environmental costs

Improve stakeholder perceptions

# NCCOS is establishing its EMS in 2005, next year it will start using the system to support NOAA's mission through improved management of environmental issues

# **Step 1: Implement the System**

**Design the Process for - Identifying Risks** 

**Managing/Controlling Risks** 

**Assessing Performance** 

Integrating Improvements

### **Develop Procedures for -**

Communication

**Training** 

Contracting

Recordkeeping

Assessing, etc

## **Step 2: Start Using the System**

#### **Plan**

- Identify risks requiring management
- Establish objectives for risk management

### **Improve**

- Identify performance trends
- Identify improvement priorities

### **Implement**

- Implement programs to manage risks
- Place controls on high risk activities

#### Review

- Monitor programs and controls
- Conduct system assessment

# The NCOSS EMS Team has made significant progress to date and has set aggressive targets to meet the EO 13148 December 2005 deadline

EMS Implementation Elements	Status
POLICY & LEADERSHIP	
1. Identify Primary EMS Contact	
2. Issue a local EMS policy document or commitment letter	
PLANNING	
3. Identify significant environmental aspects and impacts	
4. Identify EMS objectives and targets	
IMPLEMENTATION & OPERATION	
5. Specify EMS operational controls	
6. Assign EMS responsibilities	
7. Identify EMS procedures	
MONITORING PERFORMANCE	
8. Establish an internal EMS self-audit program	Nov. 2005
CONTINUAL IMPROVEMENT	
9. Establish a management review process	Nov. 2005
10. Complete the self-declaration process (or external certification)	Dec. 2005

**Target Set** 

Complete

**Partially Complete** 

# EMS Team has recommended three areas of Focus for the EMS in support of the NCCOS Strategic Plan

# EMS Objective FY2005-2009

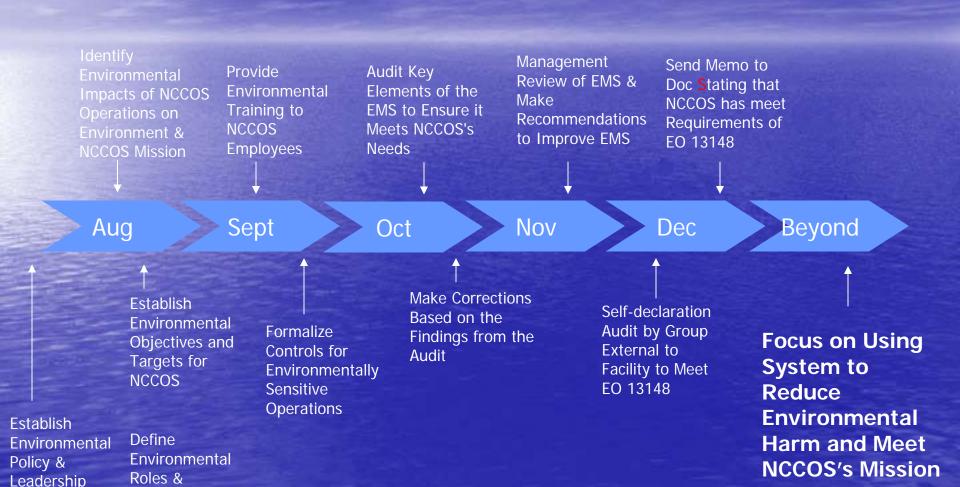
and economic goals

# 1. Manage the use of Natural Resources so as to support NCCOS's mission and balance society's environmental, social,

## **Possible EMS Targets FY2006**

- Baseline number of chemicals used by NCCOS Labs
- Baseline core waste streams from NCCOS Labs
- Develop list of substitute materials
- 2. Build capacity internally and in the private, local, state, and tribal sectors through education, technical assistance, and technology for effective natural resource and environmental management
- Identify environmental management education needs within NCCOS
- Develop education programs for key NCCOS groups (managers, HR, etc.)
- Identify stewardship programs based on lab practices
- 3. Ensure that environmental requirements of NCCOS operations are appropriately considered in the allocation of resources and development of policy
- Baseline cradle to grave lab environmental costs
- Determine Agency benchmark for resource allocation practices

# Although a lot has been achieved, a final effort is needed to meet the Executive Order Deadline



Responsibilities