



Moving on Up!

WHAT IT TAKES TO ADVANCE IN THE ESI PROGRAM



Overview

- ☐ Application process and timeframes
- ☐ Criteria for Rising Environmental Steward & Environmental Steward levels
- ☐ Insight into site verification visits
- ☐ Discussion



Membership Application and Review Timeframe



Environmental Partner

- Applications accepted year round
- Accepted partners reviewed annually



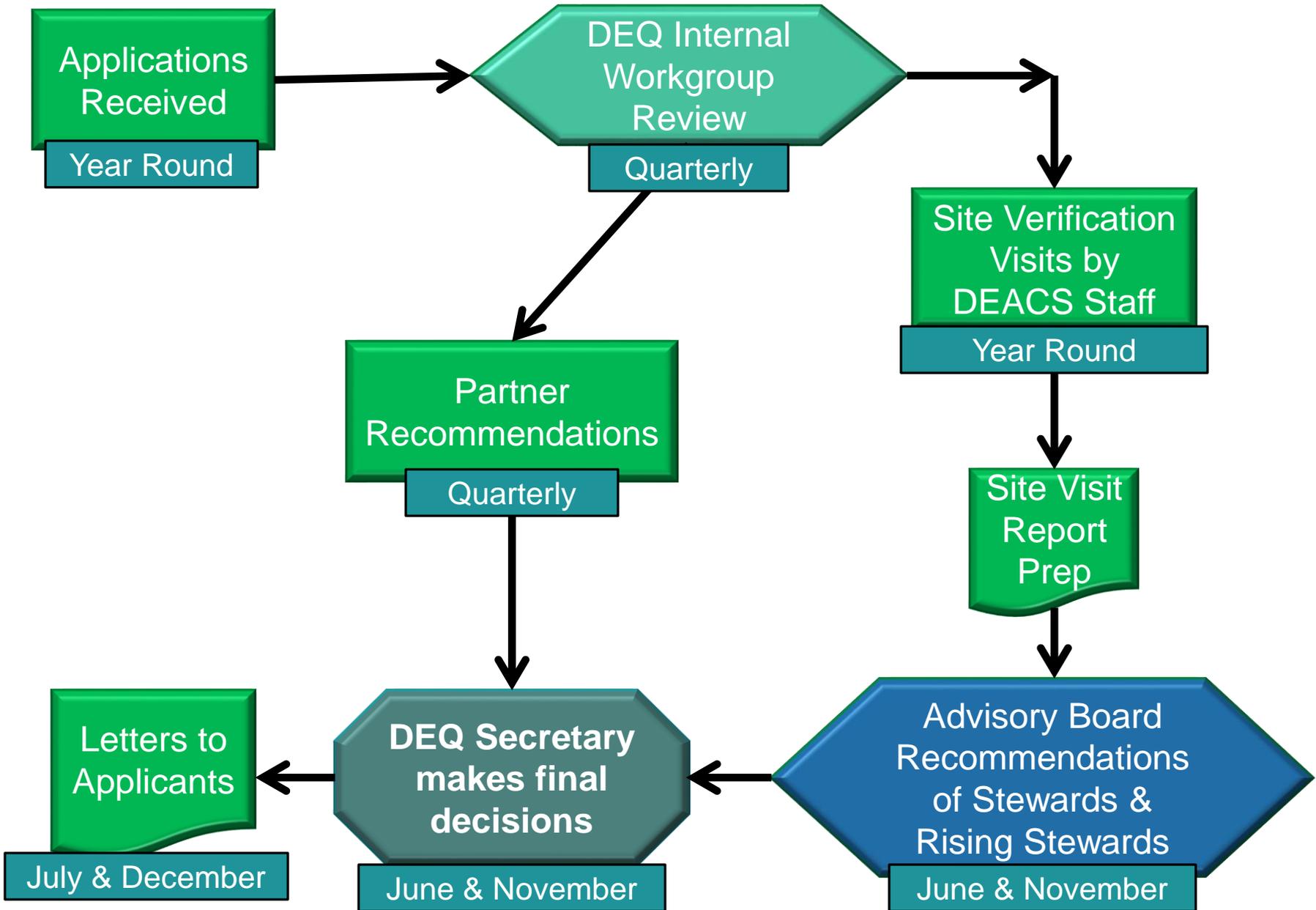
Rising Environmental Steward

- Application accepted year round
- Accepted Rising Stewards renew every five years



Environmental Steward

- Applications accepted year round
- Accepted Stewards renew every five years





Criteria for Partners

- Commit to working toward Compliance. (Not be under criminal indictment)
- Commit to implementing an Environmental Management System OR set 2 site-specific **measurable** environmental performance goals.
- Agree to report annually on environmental progress.



Rising Steward and Steward Criteria

Rising Steward

- ❖ Set site-specific measurable environmental performance goals

- ❖ commitment to meet and go beyond compliance
- ❖ mature EMS

Steward

- ❖ Set site specific aggressive environmental performance goals
- ❖ Agree to be a mentor
- ❖ Process for communication with the local community
- ❖ EMS integrated into core business functions



Meeting and Going Beyond Compliance

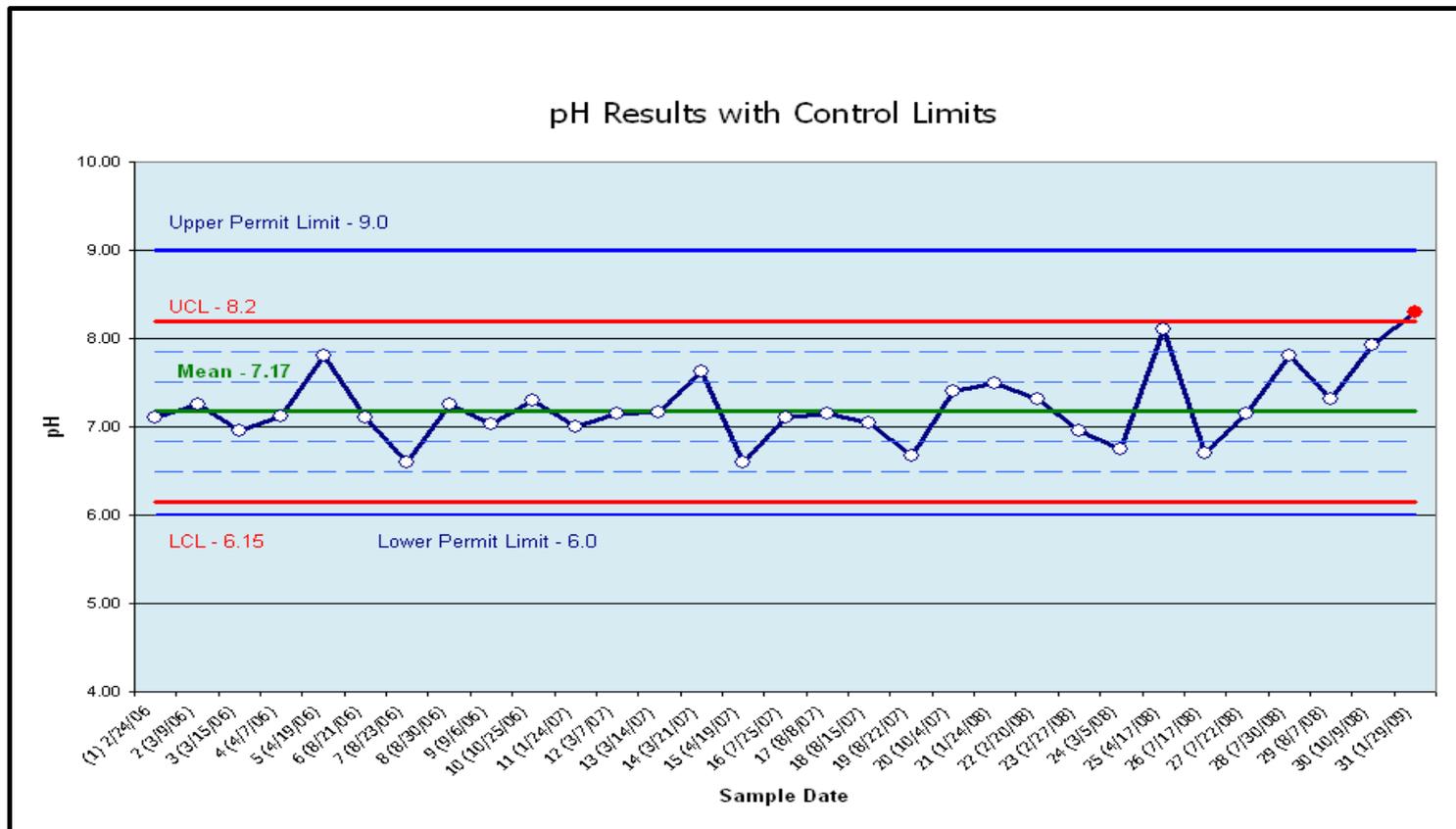
Examples of actions deemed going beyond compliance:

- ❖ Emitting, discharging and/or raw material utilization at levels below permitted or regulated levels
- ❖ Controlling, reducing and/or eliminating emissions, discharges, raw materials and resources not currently permitted or regulated that the facility has identified as a potential environmental issue.
- ❖ Activities that result in the elimination of an environmental permit or have facilitated the reclassification of the site.
- ❖ Frequency of internal inspections/audits, monitoring/sampling or record keeping that is beyond requirements for that regulated activity



Example of Beyond Compliance

Maintaining limits below permitted levels





Example of Beyond Compliance

**Not regulated, but an environmental concern:
Lagoon Closure**



Before

After



This area was then used for K9 training by the local Police Department



Example of Beyond Compliance

Smithfield Packing in Wilson

Obstacle:

Due to FDA regulations must maintain standard of cleanliness



Goal: The facility wanted to reduce water usage by 5% annually

Effort to achieve water reduction goal: Installation of an instantaneous hot water system allowed the facility to decommission their boilers, saving a significant amount of water, electricity, natural gas, & boiler treatment chemicals



Example of Beyond Compliance

Not currently permitted or regulated, but reduces environmental impact:

- Water use
- Energy use
- Recycling efforts
- Product substitution



Example of Beyond Compliance

Reclassification

- Going from a large to a small, or from a small to conditionally exempt small quantity hazardous waste generator status
- Significant industrial user to a industrial user pretreatment status
- Title V to a synthetic minor, synthetic minor to a small air quality permit holder



Example of Beyond Compliance

Frequency of Inspections:

Performing weekly and annual checks of all bag filters used – not just those permitted in the air permit.

Weekly visual inspection of plant-wide water leaks

Weekly leak check on underground storage tanks
(required monthly)



Measurable Goals

Differentiate between “planning” goals

-Ex. achieve zero permit violations, modify online “training” programs, expand EMS

Versus

Quantitative/Measurable goals

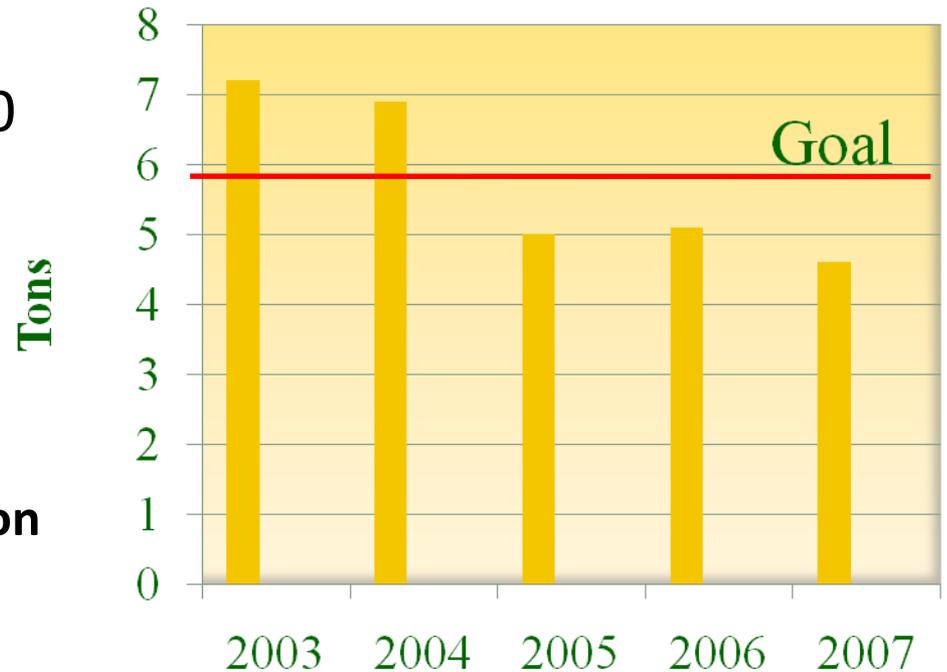
-Ex. Energy, solid waste, water usage reductions



Example of Measurable Goal

Goal: Reduction of TRI Emissions
Target: 85% Reduction from 2000

Baseline year	2000
Baseline value	39.09
2007 value	4.6 tons ~85% reduction
Target (2010) value	5.86





Example of Measurable Goals

Goal : Reduce energy usage

Target Description: Decrease energy usage by 15% End of 2017

Baseline Year	2015
Baseline Value	710,751
2007 Value	730,000
Target Value	604,138
Target Year	2017



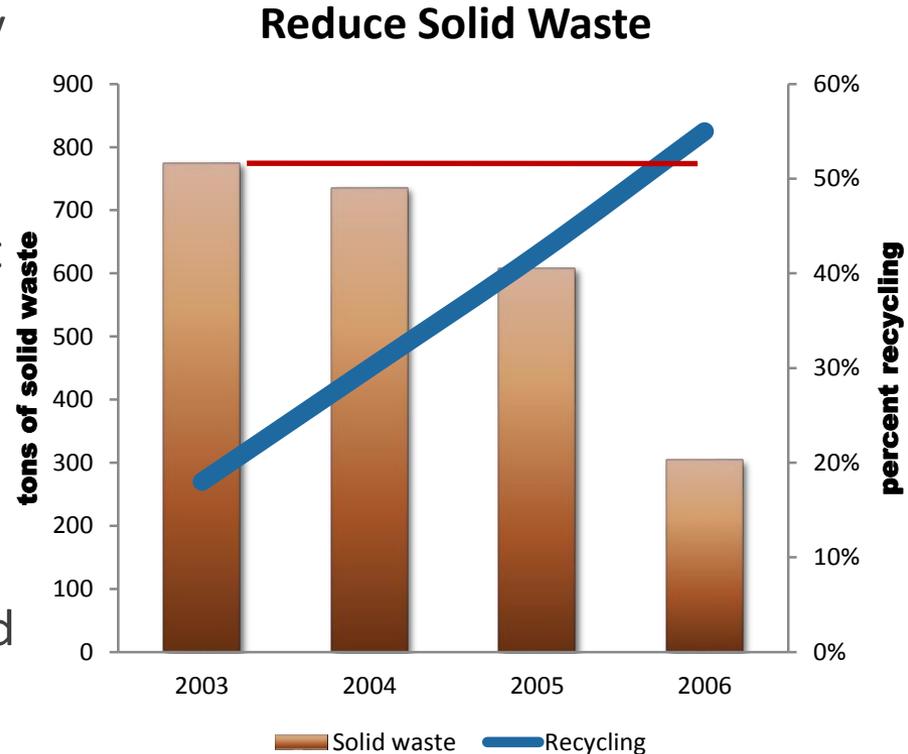
Example of Measureable Goals

Solid Waste Landfilled Indexed to Production

Actual solid waste landfilled decreased by 61%

Major contributors:

- New technology eliminated significant filter pads
- Most remaining filter pads are now shredded and recycled with process residuals
- Wood waste is now composted
- Several bulk handling systems installed





Mature EMS

Aspects of an EMS that can provide insight into its maturity:

- Frequency and number of internal and external audits and management review of results related to continual improvement
- Review of training records
- Root cause analysis – Corrective Actions
- Annual Contractor training on environmental aspects, emergency contacts and safe evacuation procedures.



Example of Mature EMS

Response to a non-compliance issue

Situation:

Facility receives a CWA Violation- due to exceeding Nickel limit

Root-cause:

Chemical pump failed and no backup was available

Action taken to prevent reoccurrence :

Back-up chemical pumps were purchased and installed. Operator training programs were put in place to ensure that problem did not reoccur. Increased frequency of pump inspection were also implemented.



Criteria for Environmental Stewards

In addition to meeting all Rising Steward criteria, a Steward must:

- Set site specific ***aggressive*** environmental performance goals
- Agree to be a ***mentor*** to all ESI participants.
- Have a process for ***communication*** with the ***local community*** on program activities and progress toward performance goals.
- Demonstrate that the EMS is ***integrated into core business functions.***



Aggressive Goals

Aggressive goals should:

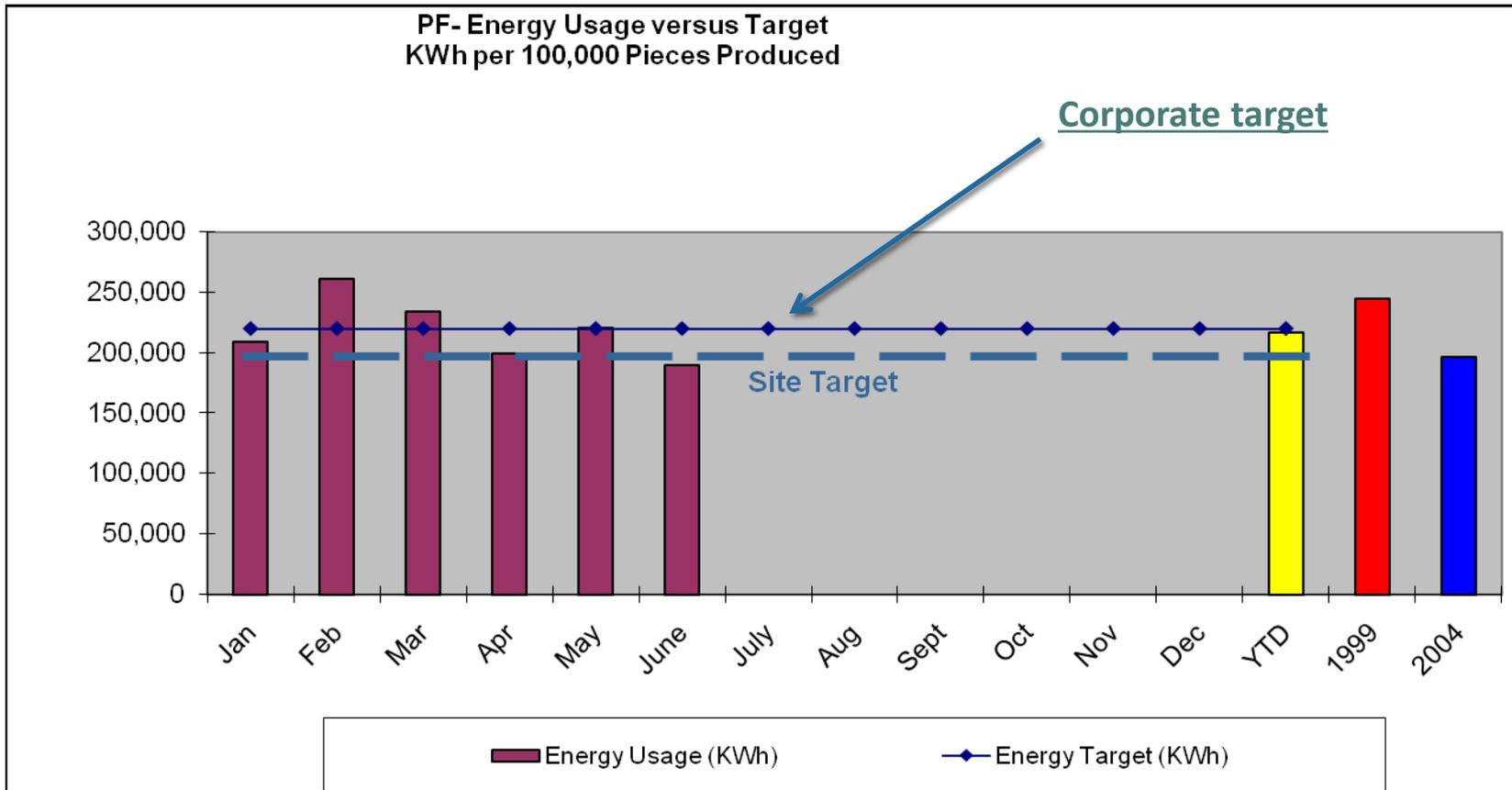
- demonstrate annual improvements to performance
- be appropriate to the nature, scale and environmental impact of the site
- result in reductions of a site's environmental impact

The aggressiveness of Steward applicants environmental goals can be shown through:

- site-specific targeted reductions in environmental impacts
- the techniques and technologies required to achieve the goal
- past accomplishments in reductions
- the breadth of environmental issues addressed in the goals



Example of Aggressive Goals





Mentoring Opportunities

Represent facility on Steward Panel

Provide Facility tours for ESI members

Offer presentations at ESI and other events

Allow portions of facility's EMS to be posted on ESI website

Case studies or e-news articles





Communication with local community

Stewards must have a **LEADERSHIP ROLE** in the community, not only through education and outreach efforts but ideally by **GAINING** input from community members

Examples of Communication

Internal or external presentations to community leaders, neighbors, educational institutions

Providing updates/success stories to local area media outlets

Distribution of annual environmental reports to community leaders, neighbors, educational institutions, etc.

Participation in environmental events/groups including local, state or national

External Website

Activities or programs that educate and seek input from local community on environmental issues

Adopt-a-stream, street, highway, etc

Work with local schools or parks on environmental projects



Examples of Community Involvement

Corning's Environmental Fair

Facility meeting with their City Council annually to discuss environmental activities and goals.

Facility represented on local emergency planning committee

Facility members active on community action boards

Burt's Bees Planet Earth celebration



ASMO North American Group Site

Home	Company History	Company Outline	Environmental Policy
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ANC Environmental Policy

It is the policy of *ASMO North Carolina, Inc. (ANC)* to conduct its business in a manner that is consistent with environmental preservation and harmony with society. To implement this policy, ANC commits to the following principles:

- ANC will operate as an environmentally responsible corporate citizen;
- ANC will seek to prevent pollution and to ensure that its operations comply with relevant environmental laws and regulations and other related environmental obligations;
- ANC will implement an environmental management system which includes objectives and targets, periodic review, and a commitment to continual improvement;
- ANC will communicate this policy to all ANC associates and make it available to others upon request.

Click below to view ANC's FY 2007 - Environmental Management Review Report ([Requires Acrobat Reader](#))
[FY 2007 - Environmental Management Review Report](#)



Examples of Integration into Core Business Functions

Includes but not limited to:

Integration of management review meetings concerning env. progress with other business programs

Integration of environmental goals with other business goals (Triple Bottom Line approach)

Frequency and type of communications to employees environmental issues/progress

Employee reward and recognition programs

Development of departmental goals related to environmental issues



#	DESCRIPTION	WHO	FREQUENCY	IMPACT
120	TREAD CUSHION GAGE	OPERATOR	START OF SHIFT	HIGH SPEED AND ENDURANCE
121	DR. JARVIS MOTOR COMPENSATION	OPERATOR PLUS SECOND PERSON	EACH DIE ASSEMBLY	PERFORMANCE
122	TOL-F HEAD & EXTRUDER TEMP. SET POINTS	OPERATOR	START OF SHIFT	HIGH SPEED AND ENDURANCE
123	TOL-F HEAD & EXTRUDER TEMP. SET POINTS	OPERATOR	START OF SHIFT	HIGH SPEED AND ENDURANCE
124	TOL-F HEAD & EXTRUDER TEMP. SET POINTS	OPERATOR	START OF SHIFT	HIGH SPEED AND ENDURANCE
125	F-WAY CHECK	OPERATOR	EACH BRID CHANGE	CUSTOMER REQUIREMENT
126	QUADRON STITCHER PRESSURE SETTINGS	OPERATOR	ONCE A SHIFT	PERFORMANCE
127	WARM UP SAMPLE	OPERATOR	EACH BRID CHANGE	PHYSICAL PROPERTIES
128	STITCHER DEFORMATION	OPERATOR	START OF SHIFT	PRODUCT PERFORMANCE
129	CEMENT APPLICATOR CONDITION	OPERATOR	CHANGE EACH SHIFT	ADHESION
130	TREAD WEIGHT AT FRONT SCALE	OPERATOR	EACH STOCK RUN	PRODUCT PERFORMANCE
131	TREAD WIDTH	OPERATOR & WIND-UP ATTENDANT	FIRST AND EVERY FOURTH REEL	HIGH SPEED AND ENDURANCE
132	DR MARKING QUALITY CHECK	OPERATOR & WIND-UP ATTENDANT	START OF EACH RUN	CUSTOMER REQUIREMENTS
133	WINDUP LINER TENSION	WINDUP ATTENDANT	START OF SHIFT	PRODUCT PERFORMANCE
134	CARDER # MATCHES SCHEDULE	OPERATOR & WIND-UP ATTENDANT	EACH DIE RUN	PRODUCT PERFORMANCE
135	TREAD WEIGHT VALIDATION	WINDUP ATTENDANT	SAMPLE TAKEN ON FIRST REEL	PRODUCT PERFORMANCE
136	TREAD QUALITY CHK	WINDUP ATTENDANT	FIRST and EVERY FOURTH REEL	PRODUCT PERFORMANCE

#	PART	ITEM	WHO	CHECK POINT	FREQUEN
121		MAX TEMP (85) *	OPERATOR	THERMOSTAT	START OF SHIFT

#	PART	ITEM	WHO	CHECK POINT	FREQUEN
126		SAFETY TRIP INSPECTION	OPERATOR & MILL ATEN	MILL & WIND-UP	START OF SHIFT
127		SAFETY INSPECTION	OPERATOR	POINT OF USE	START OF SHIFT

#	PART	ITEM	WHO	CHECK POINT	FREQUEN
112		CONTAMINATION	OPERATOR	TREAD LINE	START OF SH
246		CEMENT DRUM	HA.	BARREL LOCATION	START OF SH
134		HAZ.	OPERATOR	APPLICATION AREA	START OF SH



Examples of Integration into Core Business Functions

Implementation of process improvement programs that reduce environmental impacts (Kaizen, Six Sigma, Lean Manufacturing, etc.)

Integration of environmental impact review process into new project assessments

Environmental staff on pre-construction team

Corrective Action system available to all employees.

Integration of green purchasing practices into contract system

Environmental analysis on product/equipment prior to purchase

Color Cone Identification

SF-001 Rev 3 Date 7/16/08 **CONTROL# S1206**

ASSOCIATE REPORT OF ENVIRONMENTAL OR SAFETY ISSUE
Complete Sections 1 and 2 and place in STAR collection box at Security
If you have a suggested corrective action or implement a corrective action please complete Section 4

Section 1: Basic Info
Department: 171
Date: 9/23/08 Location in Facility: Recycling Building
Area Manager: Matt Hargett Report Prepared By: John Burke
Time Of Observation: 11:00am Environmental Conditions:

Section 2: Description Of Issue (If this is an issue you can resolve please do and note the action you took)

Section 3: Applicable OSHA Standard
29 CFR 1910: _____
29 CFR 1926: _____

Section 4: Proposed Corrective Action
Determine source of chemicals and waste and review procedure for waste disposal



Site Verification Visits





What to Expect During a Site Verification Visit



Purpose: To verify information on application and collect any additional information related to noncompliance, EMS maturity, and environmental goals.

Both Rising Steward and Steward Applicant should have the following information available for review:

Minutes from last 2 Management Review meetings

List of significant aspects and impacts and procedure for identification

Copies of Corrective Actions for last 6 months

Copies of NOV's or any noncompliance information from last 2 years including procedures and process for root cause analysis and correction

Results from last 2 Internal Audits



Site Verification Visit

The following questions may be asked:

How compliance issues have been addressed?

How internal auditing results and compliance issues are addressed at management review meetings?

Do goals reflect significant aspects and are they appropriate for the facility?

Do goals demonstrate a commitment to go beyond compliance?

Ensure all goals are included in the application.

During the brief facility tour, the team will be looking for:

- a basic understanding of operations
- evidence of information on environmental issues communicated to employees
- overall cleanliness and organization of facility





Steward Site Verification Visits

The verification team will document evidence of the following:

Communication with local community:

Identify specific activities carried out to involve and inform the community on program activities and progress toward environmental performance goals.

Integration of EMS into core business

Verify activities or procedures listed in application

Aggressive goals

- Visit the area or process effected by the goals
- Review environmental management programs
- Review monitoring and measuring data





Advisory Board Meetings



2008 Environmental Steward Application and
Site Verification Visit Report
N. C. Department of Environment and Natural Resources
Environmental Stewardship Initiative

Steward Application and Site Verification Visit Report

The Steward application for the Hickory Cable Facility of Coming Cable Systems, LLC and information from the site verification visit on August 25, 2008 have been combined in this document for review by the Advisory Board. Information from the site verification team is surrounded by heavy bordered text boxes. Clarifying notes are in red. The ESI verification team included Angela Barger, Sharon Johnson, and Thomas Edgerton, all from the Division of Pollution Prevention and Environmental Assistance.

Site - Specific Facility Name: [Hickory Cable Facility, Coming Cable Systems-LLC](#)





Discussion

