



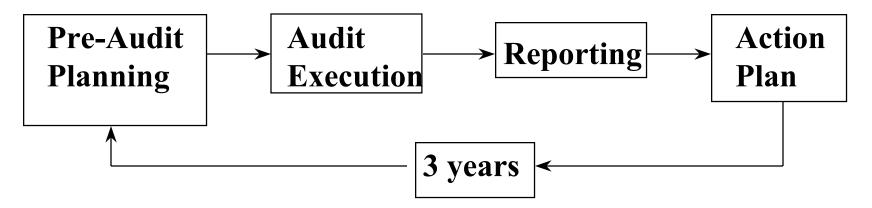
### A REVISED EHS ASSURANCE PROCESS

2002 CEAA Technical Conference & Annual General Meeting
Thursday, September 26<sup>th</sup> to Saturday,
September 28<sup>th</sup>, 2002

#### **OUTLINE**

- Noranda EHS Audit Program
- Noranda Falconbridge EHS Integration
- EHS Assurance
- Audit Scope
- Reporting

### NORANDA AUDIT PROGRAM: Pre-1998



- All corporate audits
- Many findings
- Unclear action plan objectives and priorities
- Voluntary follow-up on action plans
- No assessment of continual improvement

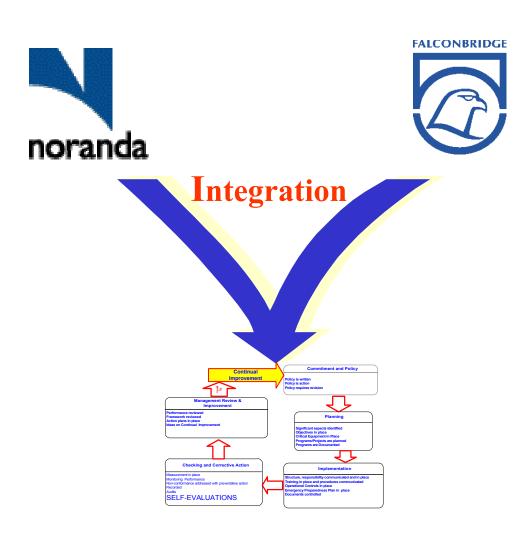
# MANAGEMENT EXPECTATIONS 1998

- ✓ EHS audits are needed; how they are done must change;
- ✓ Strong support for a dual approach:
  - Self- evaluations
  - Corporate audits
- **✓** Develop synergies with quality management;
- **✓** Corporate audits should:
  - focus on the system
  - require appropriate corrective action plans
  - ensure continuous improvement
  - help increase EHS awareness and competencies at all levels of the organization

### INTEGRATED EHS MANAGEMENT SYSTEM

- Start in 1999 one system for all of EHS
- Tiered implementation; baseline audits:
- Continuous improvement objectives:
  - Implementation window = 3 years
  - Yearly improvement objective = 50% per year
  - Implementation level >90% after 3 years
  - Shift emphasis to performance after Y-3
- As interim step, conducted systematic reviews of previous audits and compliance audits as needed or requested
- Provided the necessary tools, guidance, training and resources to help operations with implementation. (Bilingual)

# CONTEXT SPRING 2002



### **BACKGROUND**

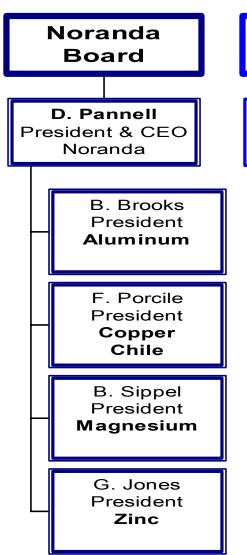
	NORANDA	FALCONBRIDGE
SALES \$MILLIONS (2001)	6,152	2,138
ASSETS \$MILLIONS	12,032	5,069
EMPLOYEES	16,000	6,400
ACTIVITIES	Cu, Zn, Mg, Al, Pb, Au, H <sub>2</sub> SO <sub>4</sub> , Recycling	Ni, Cu, Zn, Co, Pd, Pt, Ag
ISO 14001 REGISTERED SITES	NO	YES

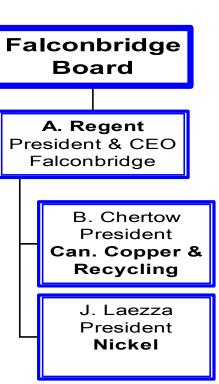
#### **SPRING 2002**

- Integration of Noranda and Falconbridge EHS Management Systems
- Strong and autonomous Business Units
- New function: Business Unit EHS Champion
- Key EHS Assurance players:
  - Senior Management
  - Business Unit EHS Champions
  - Site EHS personnel
  - Corporate EHS team
  - Employees

#### **BUSINESS UNITS**









#### EHS RESPONSIBILITIES

- EHS Committee of the Board of Directors oversees EHS governance matters
- CEO's, Presidents provide leadership and the EHS Vision
- VP EHS and Corporate EHS Team support management's duties through the implementation of policies, systems, programs, procedures and the EHS Assurance process
- <u>- Site and Project Managers</u> integrate EHS management systems into their management processes
- <u>Employees and Contractors</u> adhere to the EHS standards and take personal action to achieve EHS objectives

#### **CORPORATE EHS TEAM**

#### Mandate:

- maintains a direct link with Noranda and Falconbridge executive and senior management on EHS affairs
- ensures leadership for EHS issues remains a line responsibility

#### Interface with Business Units:

- provides support to BU and EHS Champions in meeting objectives
- manages corporate EHS Assurance programs including regular audits and ECAP-SHL visits.

#### • Performance metrics:

- updates EHS performance metrics when needed
- ensures good mix of trailing and leading indicators
- works with the Boards and executive management on setting company-wide EHS objectives

#### LINK TO BUSINESS UNITS

- Business units are responsible for continuous improvement in EHS
- Each is responsible for:
  - identifying significant aspects
  - establishing challenging objectives and targets
  - ensuring a disciplined tracking system
  - reporting ESH performance and management data
- Corporate EHS team will support these efforts and provide assistance in selecting ESH tools to meet sitespecific needs
- Corporate EHS staff can assist BU Presidents and HR with the selection of Business Unit EHS Champions and other EHS professionals

#### **EHS CHAMPIONS**

#### • Mandate:

- Supported by senior management, play a <u>strategic role</u> in developing and meeting the EHS commitments of the corporation;
- Maintain communications with corporate EHS Services and EHS Champions in other Business Units
- Oversee elements of EHS management such as:
  - EHS Policy development and reviews
  - roles and responsibilities of site EHS resources
  - internal audits and self-evaluations
  - EHS performance reporting
- Serve as a technical resource within the Noranda Falconbridge Crisis Management Plan.
- Carry out other duties as required by their present function within the business unit.

# EHS AND THE BUSINESS UNITS

# Given that the Business Units are responsible for continuous improvement in EHS performance:

- <u>EHS Champions</u> exercise a leadership role within their Business Unit towards meeting company EHS objectives.
- EHS Champions work directly with site EHS managers and cooperate with the Corporate EHS Team in ensuring a consistent approach throughout the company.

#### EHS OBJECTIVES

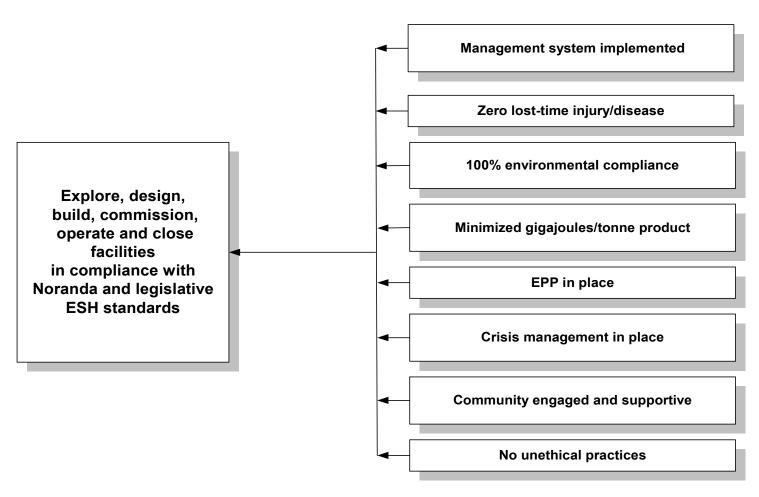
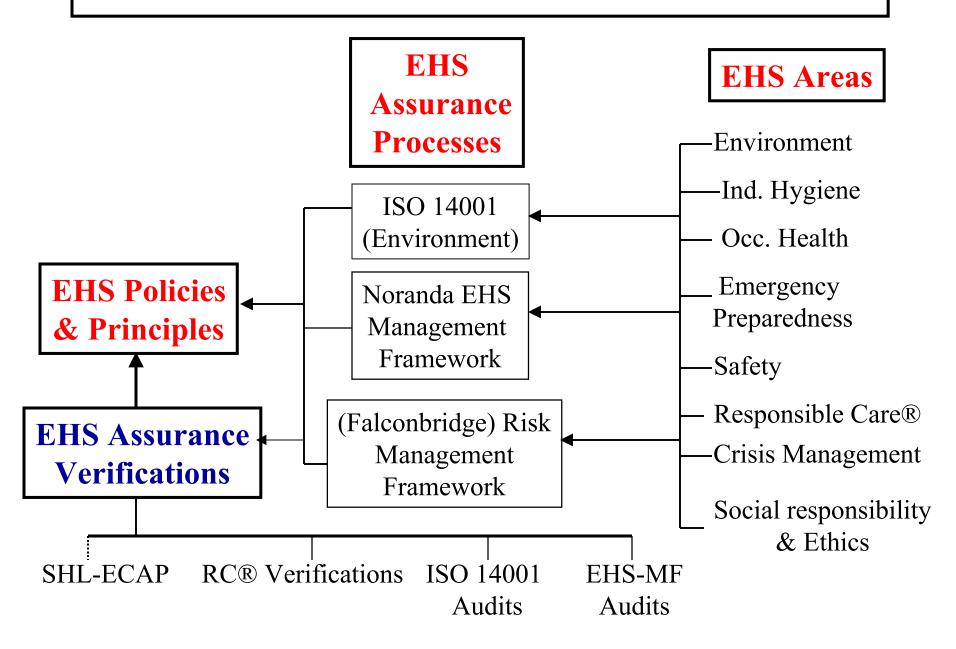
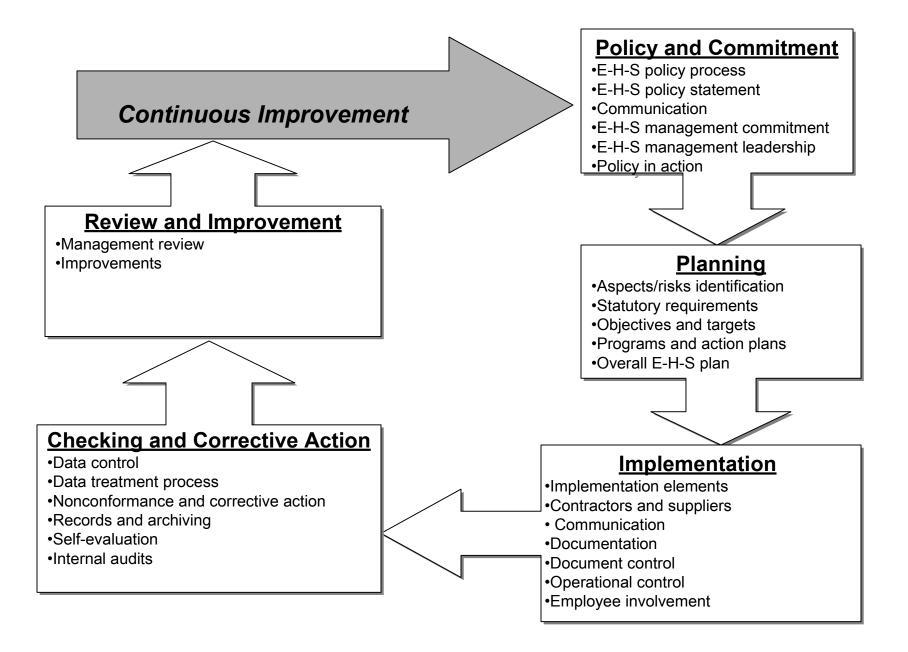


Figure 1: Noranda's ESH Performance Objectives

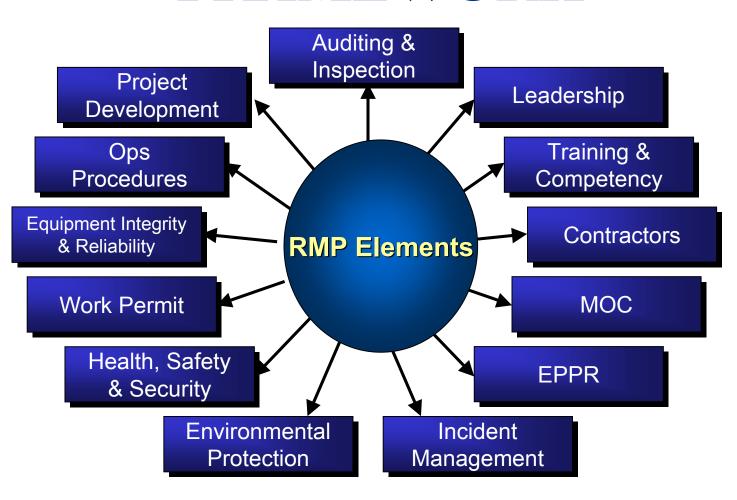
#### EHS ASSURANCE



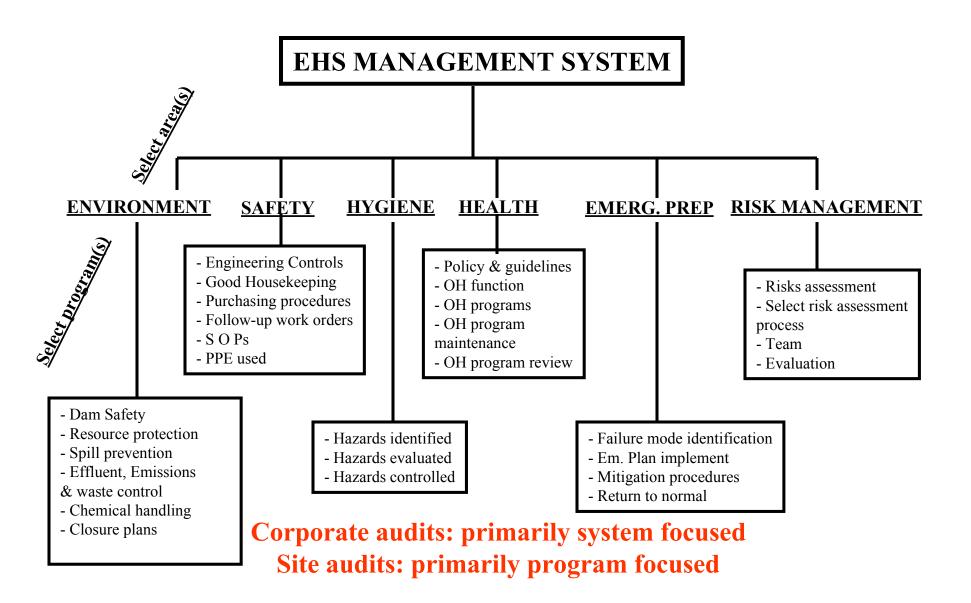
#### EHS MANAGEMENT SYSTEM



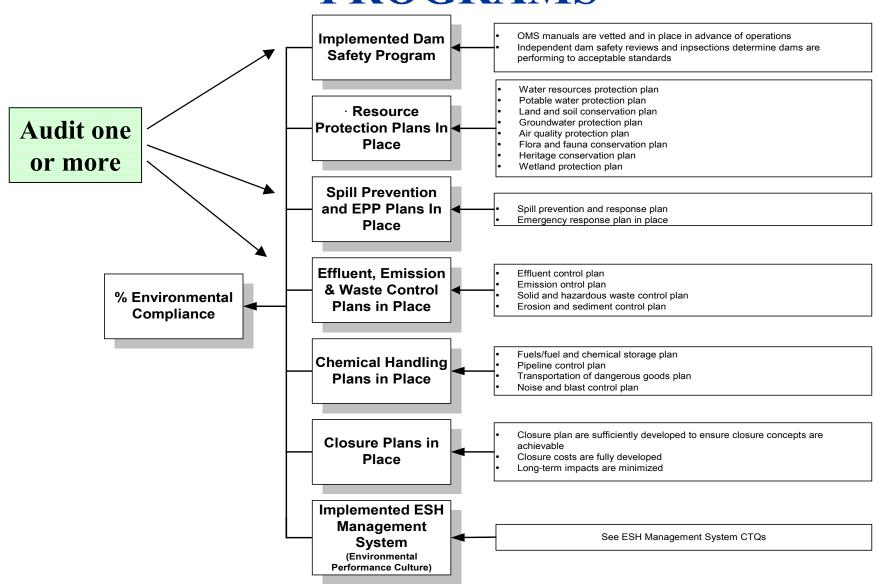
### RISK MANAGEMENT FRAMEWORK



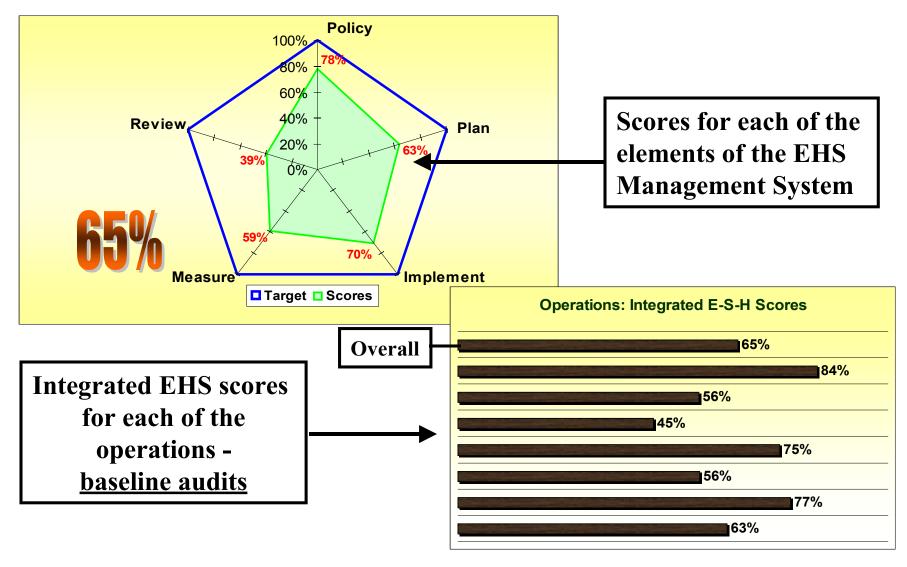
#### **AUDIT SCOPE**



### SITE ENVIRONMENTAL PROGRAMS



## CORPORATE SYSTEM AUDIT RESULTS



### E-H-S ASSURANCE REPORTING

E-H-S **Management Framework CORPORATE BUSINESS UNITS** EHS DEPARTMENT **SELF- EVALUATIONS** MANAGEMENT SYSTEM & INTERNAL AUDITS **AUDITS** ACTION PLAN Results and path forward (Summary) Results and **→**Facility Manager plans for **BOARD** improvement **B.U. Senior** Management (Summary)

