



Environment, Health and Safety, and Community Management System (EHSC MS)

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Giant Mine Remediation Project



Canada



Background

- The Developers Assessment Report committed the GMRP to use an Environmental Management System (EMS) for managing, monitoring and evaluating environmental performance and regulatory responsibilities
- Gap Analysis results indicated need to develop a MS that integrates environmental, health and safety, and community (socio-econ) requirements of key governance pieces (e.g. Charter, PEP, PMS) into an organized/ integrated system
- Environmental Assessment Hearings re-confirmed the commitment for a GMRP EMS
- A Policy defining an integrated EHSC Management System has been developed and approved
- An EHSC Management System Manual has been developed to guide implementation of an integrated system



Why does Giant need an EHSC management system?



- Significant hazards impacting the quality of the surrounding environment
- On site physical risks and hazards for workers and visitors
- Many impacts on the local communities, including environmental and socio-economic concerns

These hazards, risks and impacts all need to be managed in a coordinated way.

Giant has developed its own EHSC management system because the NCSP Management Systems requires projects of greatest complexity to do so



If Giant's EHSC MS is working well, we should see the following successes:

- Safeguarded health and safety of Northerners
- Protected water, soils, flora and fauna at, and adjacent to, the Giant mine site
- **Reduced federal liability** associated with the site by using industry best practices for remediation in a cost effective manner
- Improved relationships with the local **Aboriginal groups and Community Stakeholders**
- Demonstrated **federal commitment**, which illustrates how economic development can be carried out without adversely affecting the environment
- Demonstrated **federal leadership** in complying with all applicable environmental Acts, Regulations and standards.



Rationale for an integrated MS

- Designed on the principles of continual improvement and adopts the methodology of PLAN - DO - CHECK – ACT
- Structure generally follows international standards:
 - ISO 14001:2015* (Environment); OHSAS 18001 and AS/NZS 4801 (Health and Safety); ISO 9001 (Quality)
- Enables integrated management of operations and can improve control of risk and provides for adaptive management

*just updated documents based on changes to ISO Standard



So, what does Giant's EHSC MS look like?

EHSC Policy

EHSC MS Manual

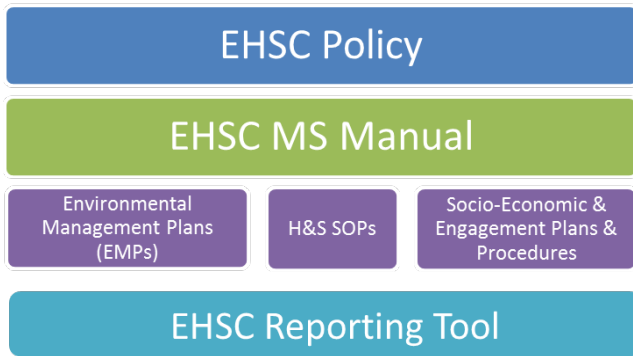
Environmental
Management Plans
(EMPs)

H&S SOPs

Socio-Economic &
Engagement Plans &
Procedures

EHSC Reporting Tool

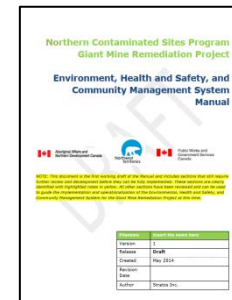
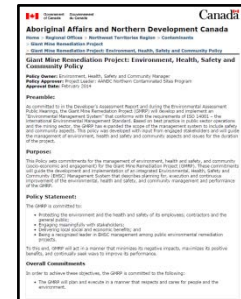
Existing Key EHSC MS Elements



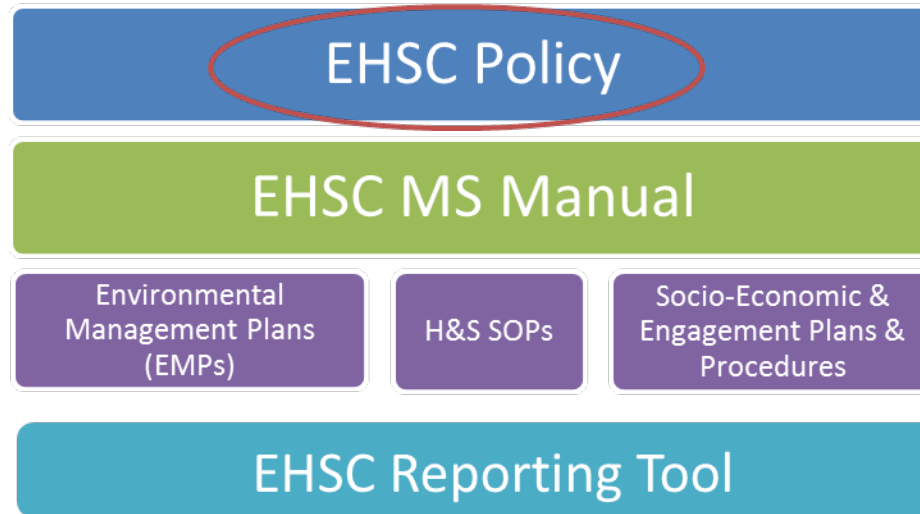
Approved 2013, posted online

Final draft complete, pending updates to R&R, monitoring sections

Functional tool, ready for launch



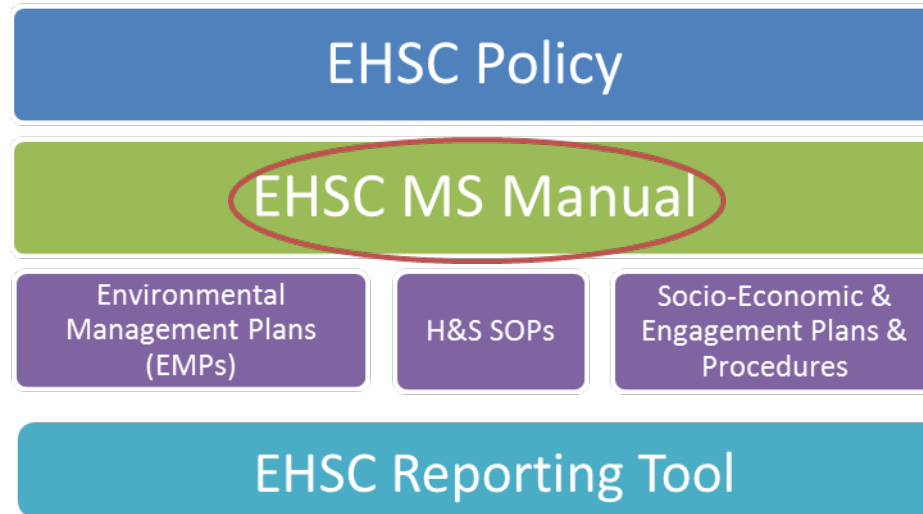
EHSC Policy



Giant Mine's EHSC Policy

- Giant's EHSC Policy is like the overarching umbrella for the EHSC Management System
- The policy sets the commitments for the management of environment, health, safety and community for the GMRP
- The policy also states that it will guide the development and implementation of the EHSC Management System

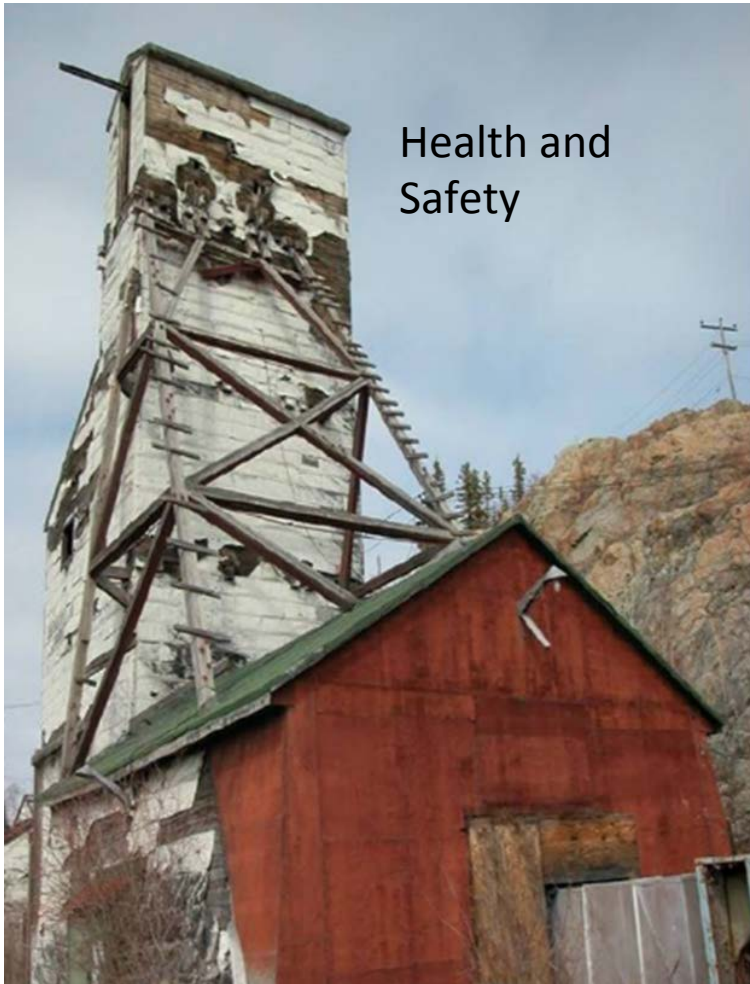
EHSC MS Manual...



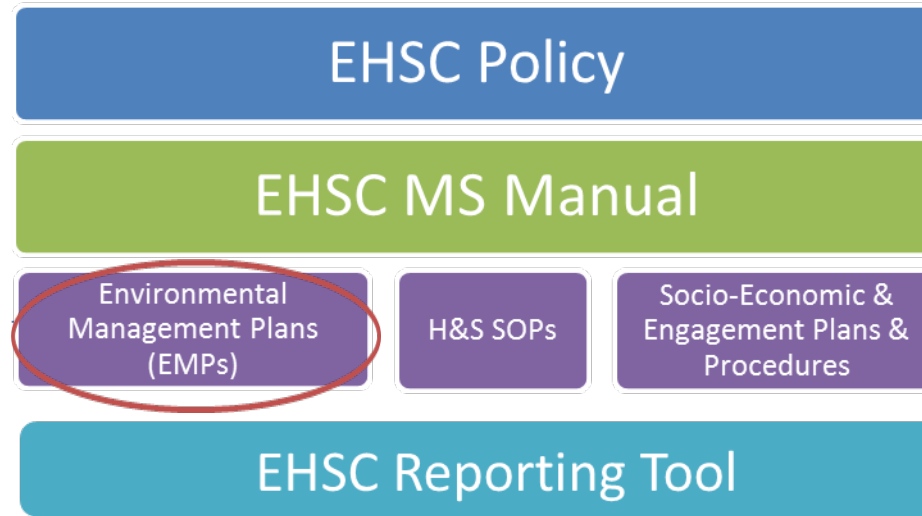
Giant Mine's EHSC MS Manual

- Giant's EHSC Management System Manual is a bit like a roadmap for the whole management system
- It describes the procedures and requirements for keeping the EHSC management system on track (e.g. incorporating EHSC criteria into contractor requirements, tracking performance against regulatory/management performance requirements, conducting awareness training, reporting results to senior management, conducting audits and management system reviews to continually drive improvements, etc.)

EHSC MS Program Areas



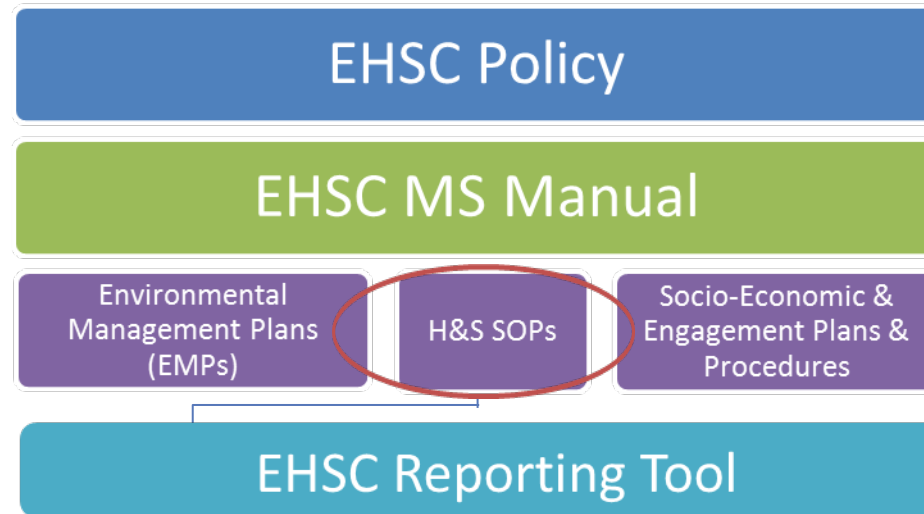
Programs :



Environmental Management Plans (EMPs)

- Giant's EMPs spell out the very specific environmental requirements, thresholds and other controls expected for each significant environmental aspect
- In the case of Giant, it is PWGSC who is responsible for preparing the EMPs. In turn, contractors are required to produce EPPs (Environmental Protection Plans and other management plans as submittals) to demonstrate compliance with the procedures found in the EMPs
- It is the responsibility of the PMs to be ensure the PLs have the contractors' EPPs

Now, the Health and Safety Standard Operating Procedures



Health and Safety Standard Operating Procedures (SOPs)

- To manage the everyday health and safety challenges, Giant relies on the NCSP's corporate SOPs
- Where there are health and safety concerns unique to Giant (e.g. handling of arsenic), then the Project has developed project-specific health and safety SOPs
- These SOPs spell out the very specific requirements, thresholds and other controls expected for each significant health and safety hazard

Now, the Socio-Economic & Engagement component:



Socio-Economic & Engagement Plans & Procedures

- These plans and procedures will provide direction on how to incorporate socio-economic goals into project, and how to approach and execute engagement processes
- The EHSC MS Manual provides signposting to find these plans and procedures (some still are under development)



Questions?

