

U. S. Steel Canada Hamilton Works

Emission Abatement Projects

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Community Advisory Panel (CAP)
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U. S. Steel Canada Hamilton Works

Protection of the Environment is one of the top priorities for U.S. Steel. USS is committed to continued leadership and excellence in protecting the environment in the communities in which we operate. Hamilton Works has an Environmental Management System that is registered under ISO 14001 and is audited annually by a certified third party.

Environmental Policy

U. S. Steel Canada Hamilton Works

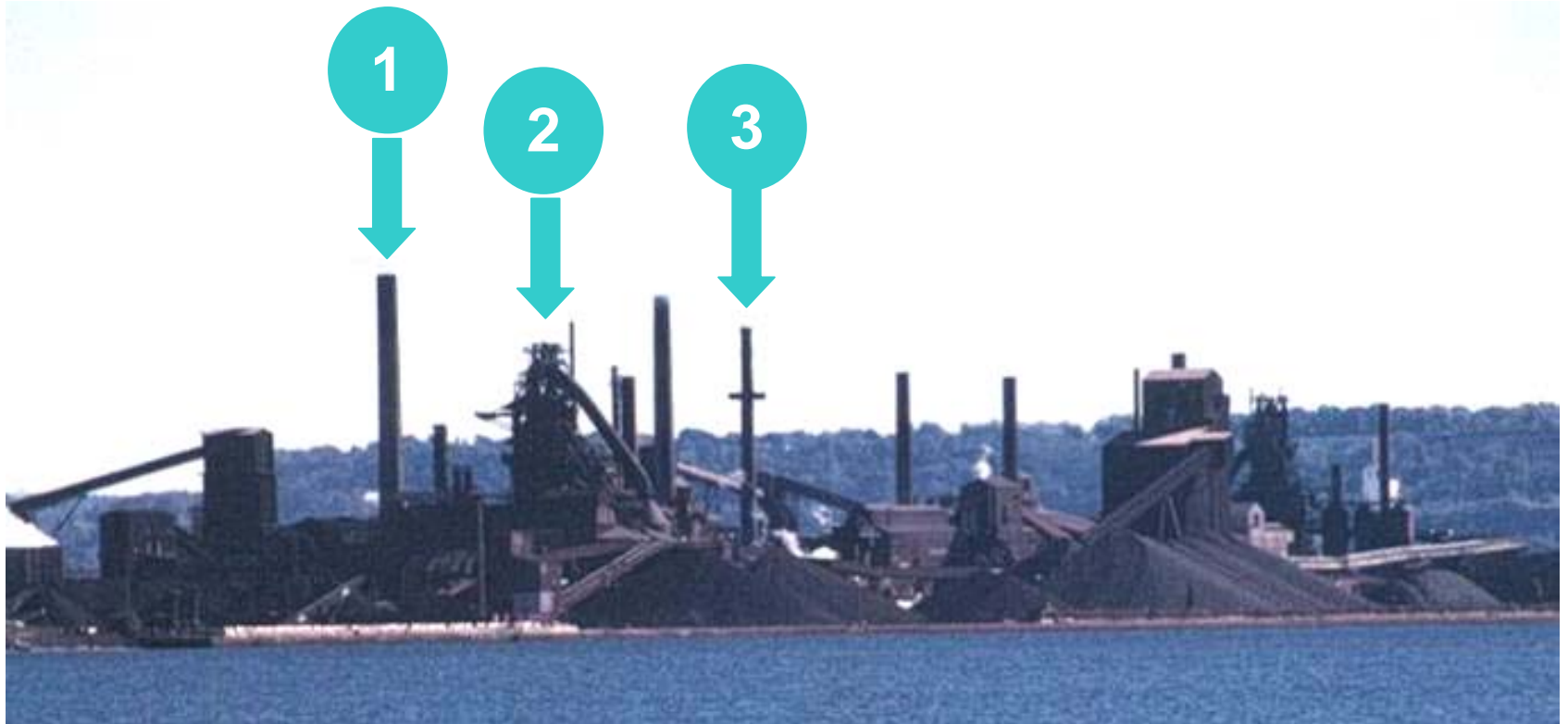
U. S. Steel Canada is committed to being an environmentally responsible company. Our environmental management system establishes and reviews environmental objectives and targets to:

- Reduce air, water and waste pollution by means of practices, operating procedures and programs;
- Comply with environmental legal requirements and our other environmental requirements;
- Prevent pollution, and;
- Improve continually.



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Abatement Projects



Hamilton Works Coke Ovens (1), Blast Furnace (2) and Sinter Plant (3)

Abatement Projects

Coke Oven Stack

Improve Coke Oven operation through ongoing equipment upgrades – specific elements of the program include:

- Light Oil Plants;
- Maintain or replace reversing valves in the Coke Oven underfiring system;
- Add sprays at the collector main butterfly valves to reduce deposits;
- Manufacture and install a new auxiliary stack damper to provide improved control of draft in the auxiliary stack.

Improve monitoring of Coke Oven operating conditions

- fuel/air ratios



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Abatement Projects

Coke Oven Stack

Complete the current review of the preventative maintenance program – to ensure that the combustion system is kept at optimal performance, including:

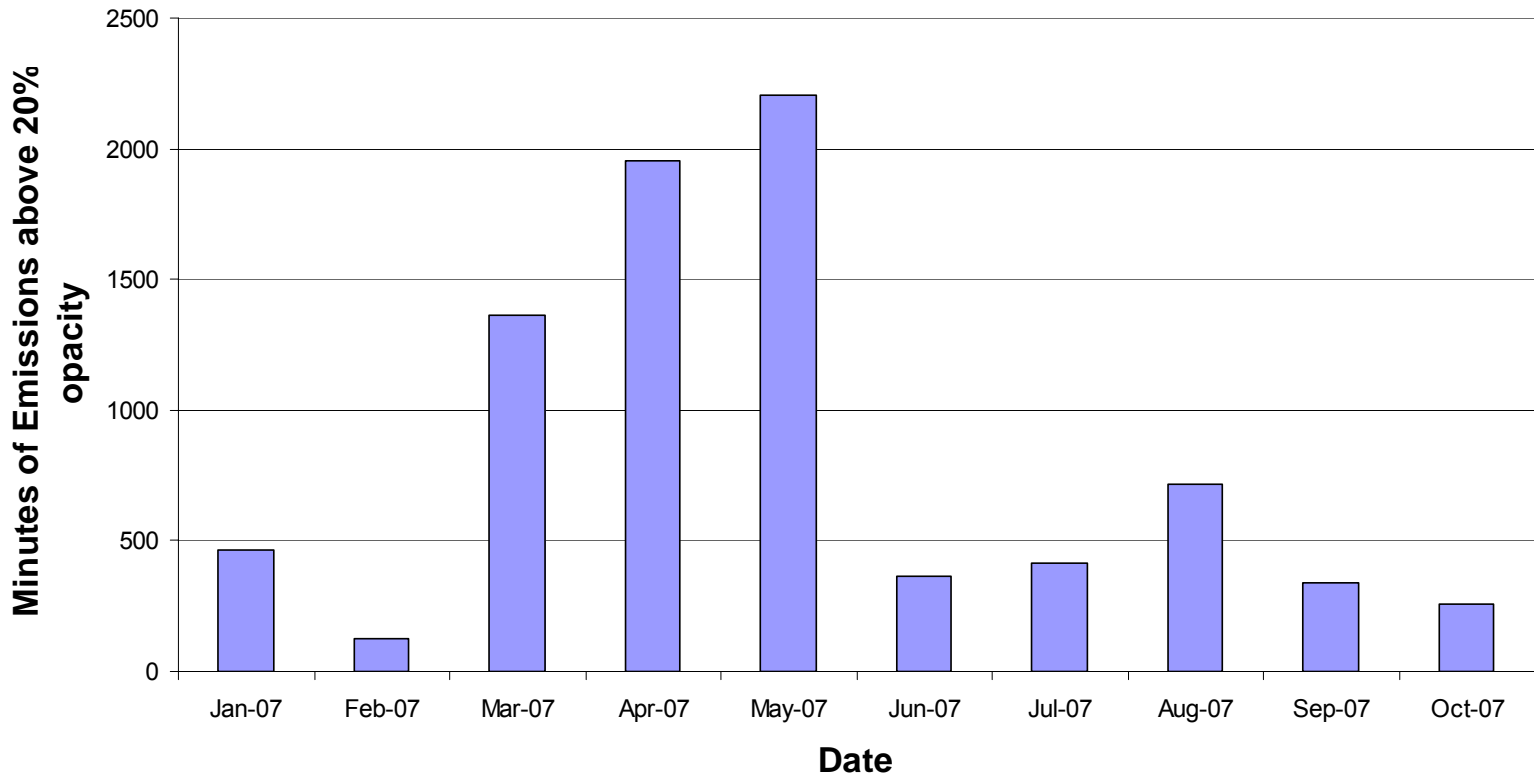
- Complete the 2007 oven wall repair program: routine ceramic welding maintenance reduces leakage from the ovens into the combustion system.



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Abatement Projects

Coke Oven Stack



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Abatement Projects

Coke Oven Battery

Topside Emissions

Replace Coke Oven doors and frames –

- Door alignment and sealing.

Pushing Emissions have been reduced to zero in 2007.

Charging Emissions

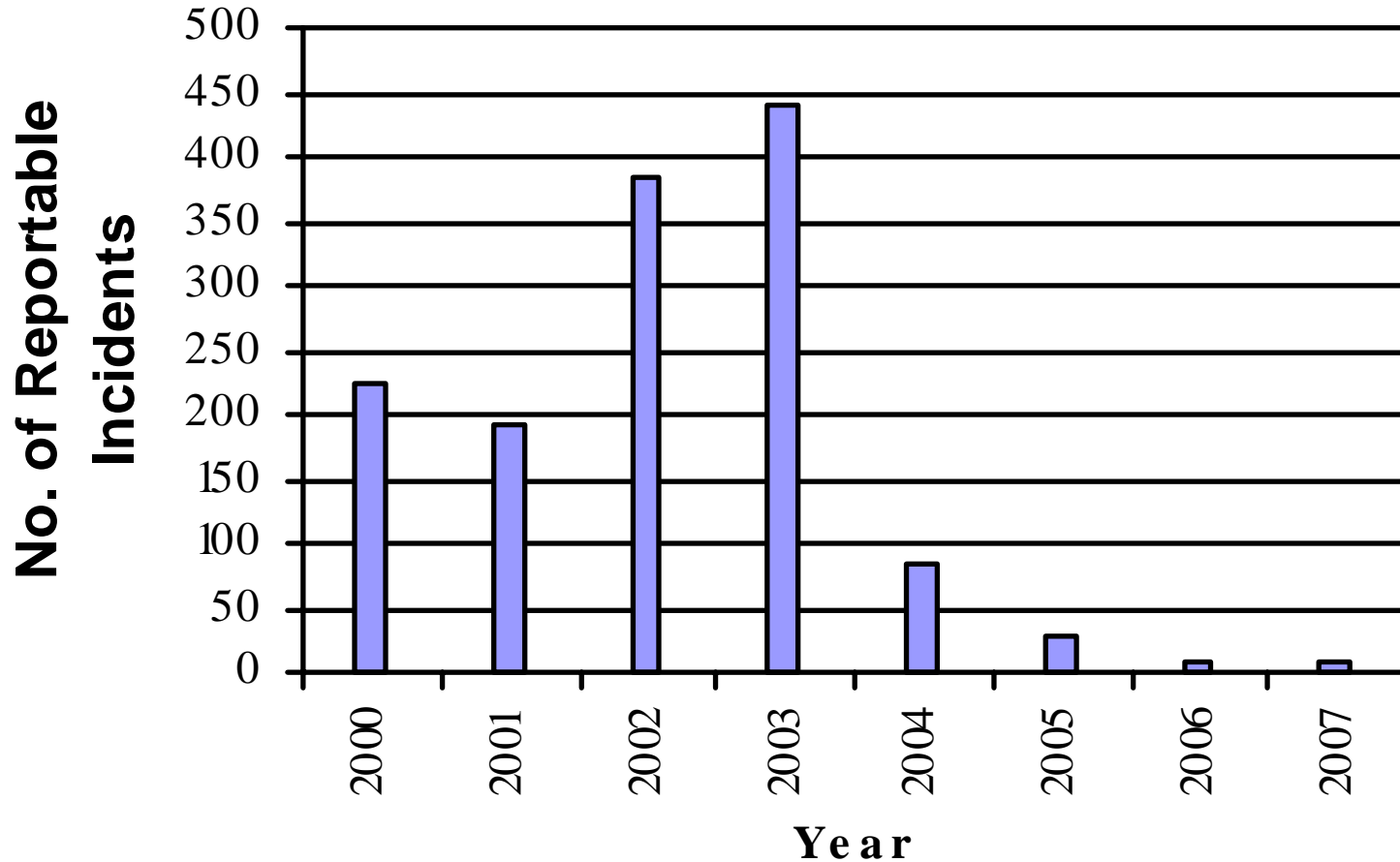
- Operator Training.



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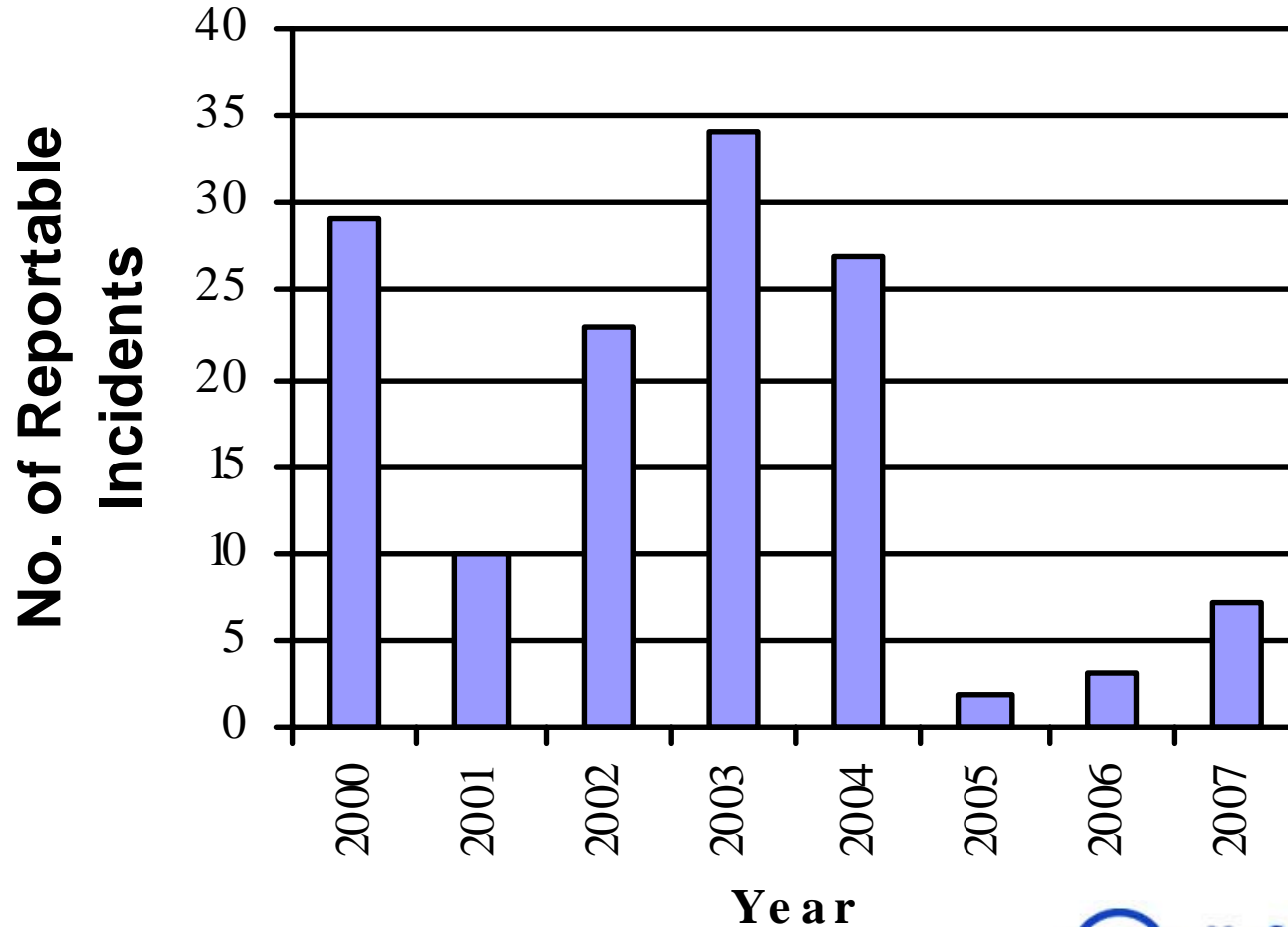
Abatement Projects

Coke Oven Topside Emissions



Abatement Projects

Coke Oven Charging Emissions



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Abatement Projects

Coke Quench Tower

Review Best Available Technology

- Study commissioned and completed by engineering consultant;

Implement Relevant Recommendations

- Conduct gap analysis between current work practices on coke quenching and US NESHAP rules;
- Audit existing quenching procedures;
- Audit and evaluate existing maintenance practices and timetables;
- Investigate performance of baffle system;
- Investigate performance of baffle cleaning system.



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Sinter Plant

Modified Feedstock Material

- trials of various feed material blends.

Gas Scrubbing System



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Blast Furnace Casthouse Emissions

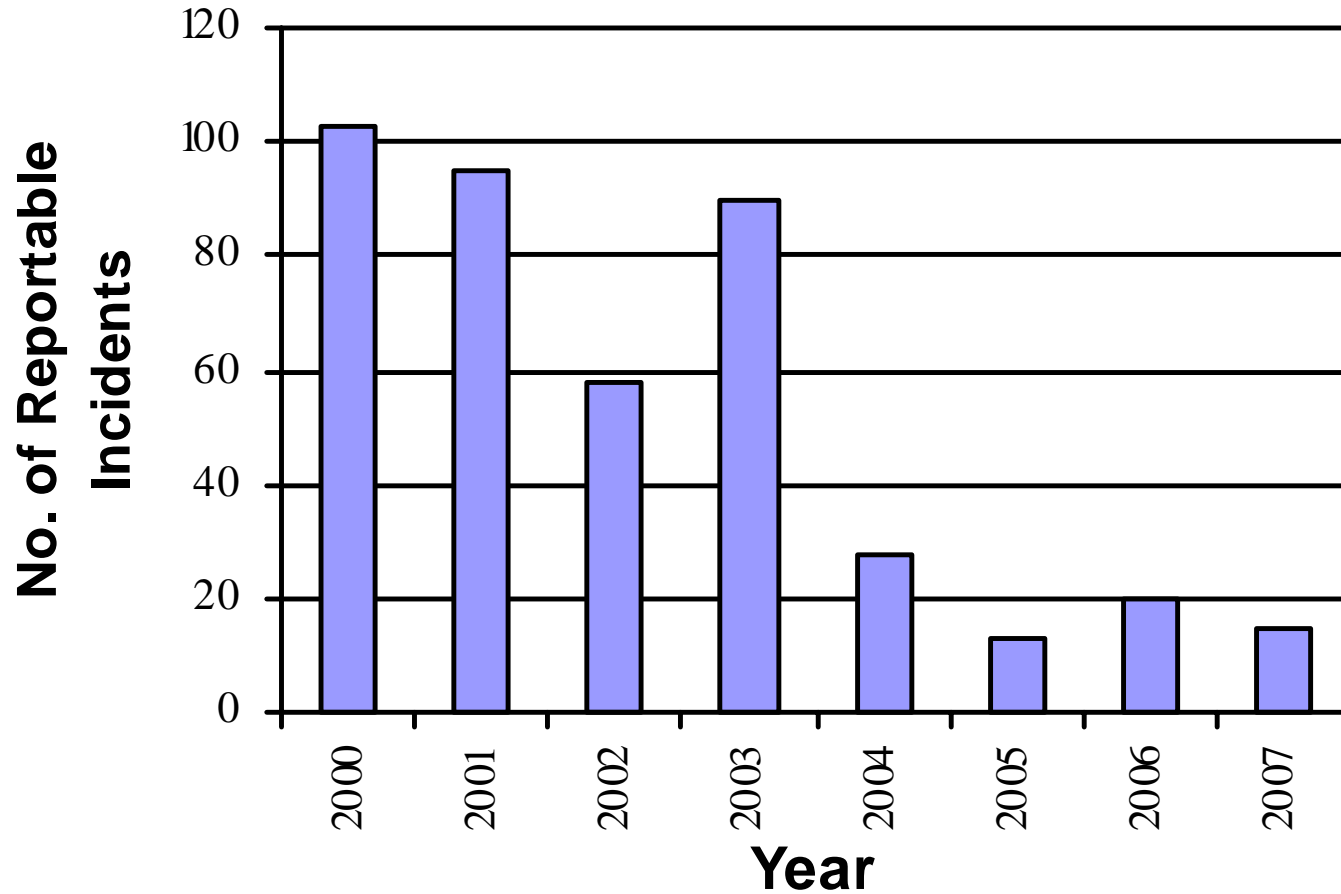
- Improve Taphole Performance
- Improve Dust Capture System



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Abatement Projects

Blast Furnace Casthouse Emissions



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Steelmaking Emissions

Improve the performance of the Electrostatic Precipitator

- Balance the airflow through the precipitator;
- Stabilize the temperature of the incoming air stream;
- Improve the monitoring of the BOF and electrostatic precipitator operating conditions.



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Abatement Projects

Coke and Coal Storage

- Real Time Wind and Weather Monitoring
- Evaluate alternative sealants and dust suppressants
- Update procedures followed by coal field operators
- Investigate availability of additional weather forecasting information
- Enhance coke pile dust management practices



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