



Regional  
Waste to Energy Plant  
For Clark County and City of Dubois



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# Introduction to Dynamis

▲ Waste to Energy 3.0 technologies and facilities

▲ Markets

- Waste Disposal
- Production of Clean, Renewable Energy
- Future – Clean coal energy research

▲ Services

- Facility Design
- Facility Design and Build
- Facility Design, Build, and Operate
- Global Carbon Credit Trading Desk



# Waste to Energy – Issues and Solutions

Issue	Dynamis Solution	Competitors
Presort Waste	No Presort Required	Most require presort and tipping floor
Dry, Grind, Prepare	No waste preparation required	Most require drying, grinding, or some prep
High Energy Operating Requirements	Self Sustaining Combustion	Most use up to 30% of power generated for plant ops
Stack Emission Equipment	None required, may add lime injection system	Most require expensive stack emission equipment
Plant Scalability	System easily scales, given available space	Most require proper sizing at initial construction
Proven Large Scale Capability	Modular design system is proven	Very few other than mass burn incineration





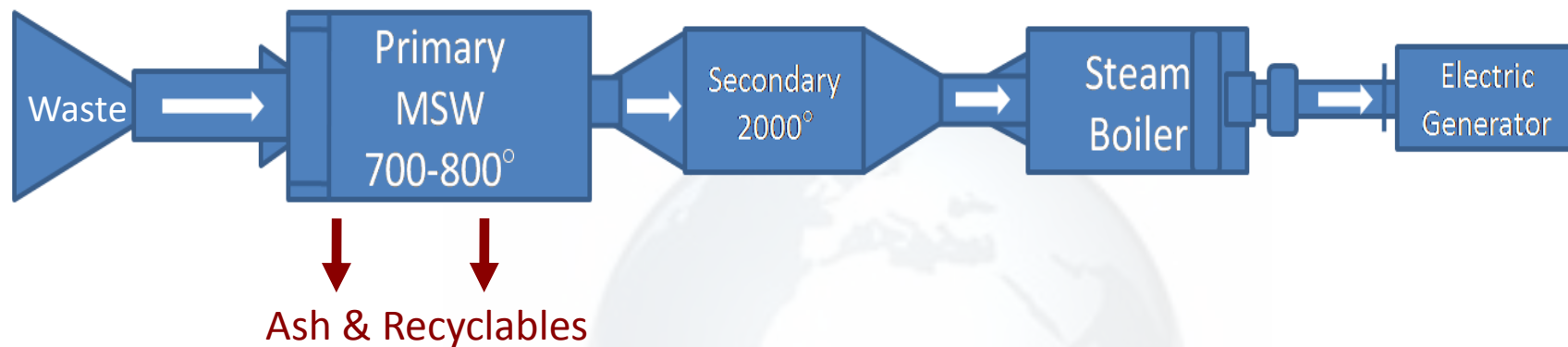
# The Dynamis Technology

- ▲ Proven and improved technology
- ▲ Patent protection with trade secrets
- ▲ Thermal Oxidation System (Gasification), not incineration
- ▲ Industry standard equipment
- ▲ Process control system is the trade secret
- ▲ High efficiency, high power output
- ▲ Field tested and bulletproof





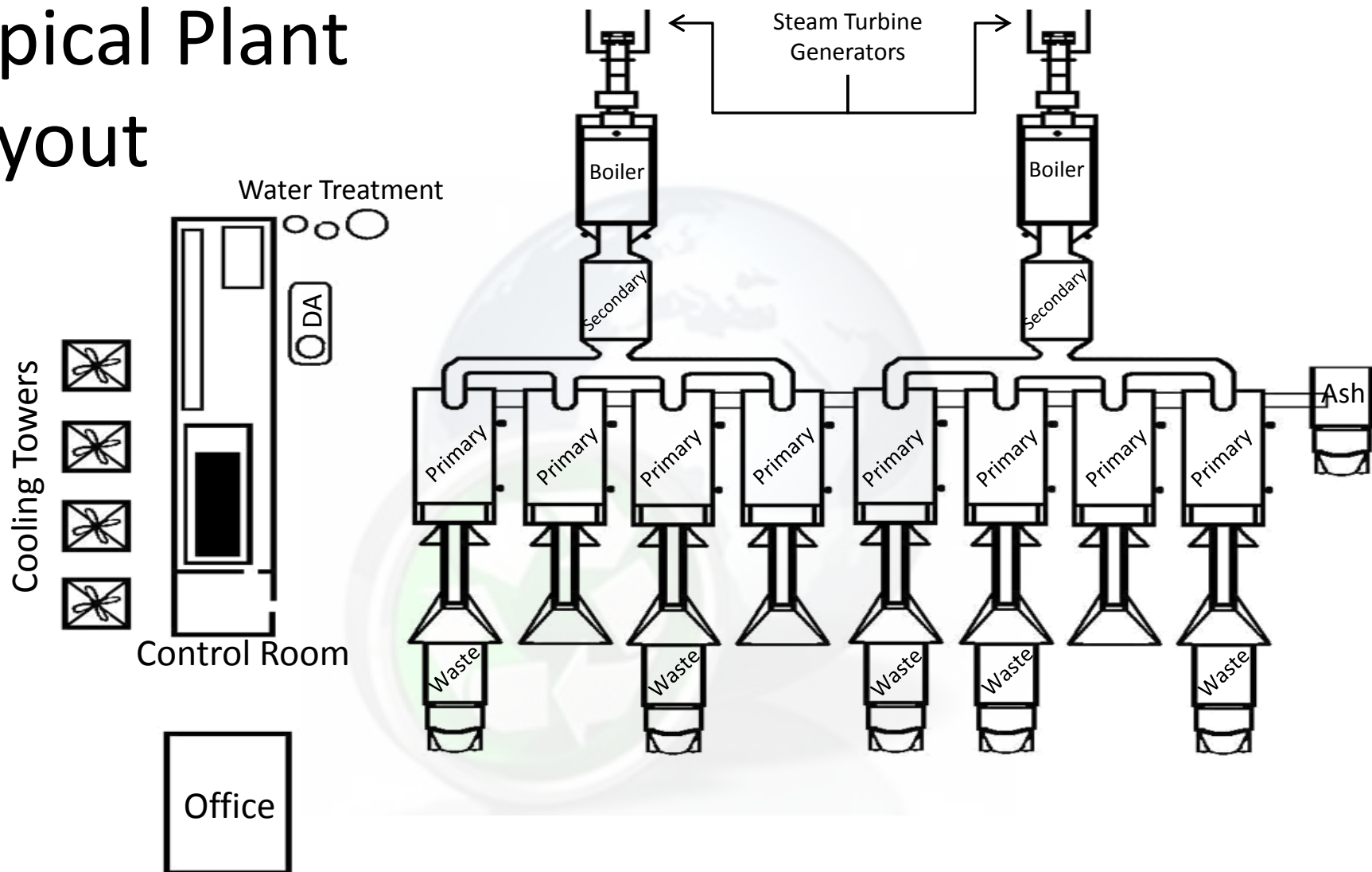
# Complexity - Efficiency - Simplicity



- ▲ Waste dumped into hopper with out preparation
- ▲ Fed into Primary chamber – patented process
- ▲ Near complete combusted in secondary
- ▲ Syngas fires boiler for steam
- ▲ Steam feeds turbine to create electricity
- ▲ Baseload electricity available 24/7 (not all renewable can claim)
- ▲ Scalable, modular technology



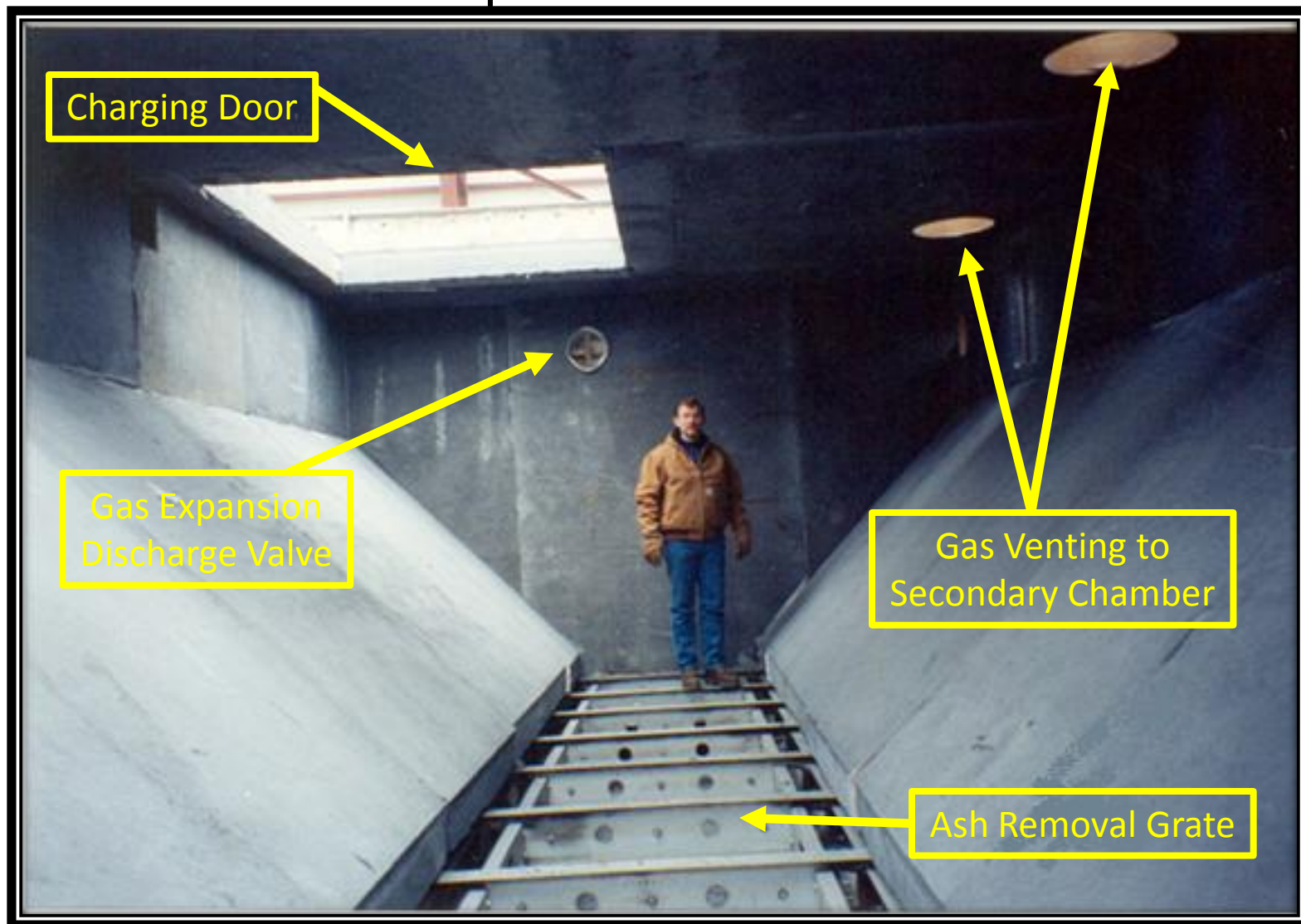
# Typical Plant Layout







## PCG Complete - Ash Removal Grate







## Completed Primary Chamber





## Vertical Configuration Shown







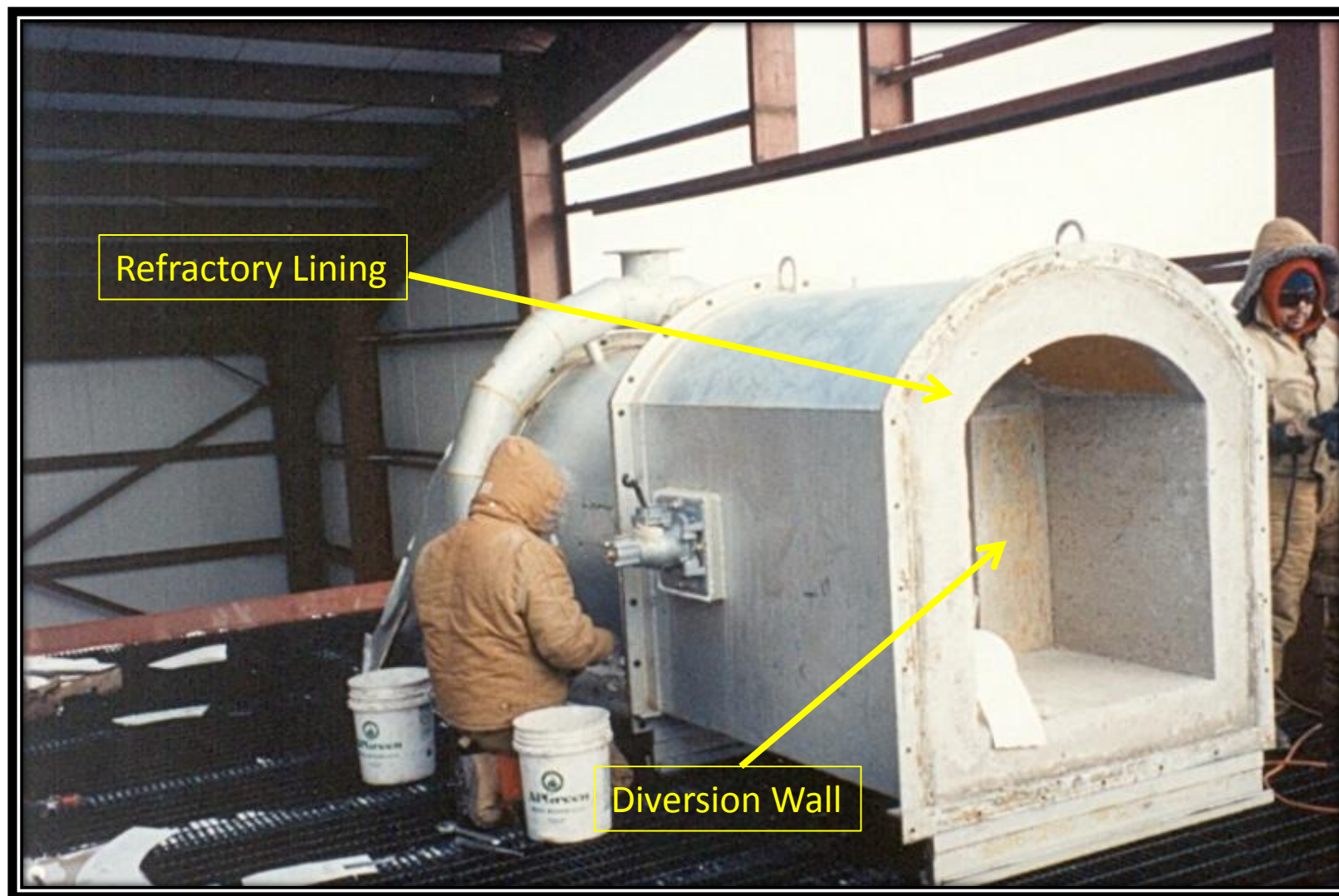
## Manifold Ready for Turbulent Air Ring







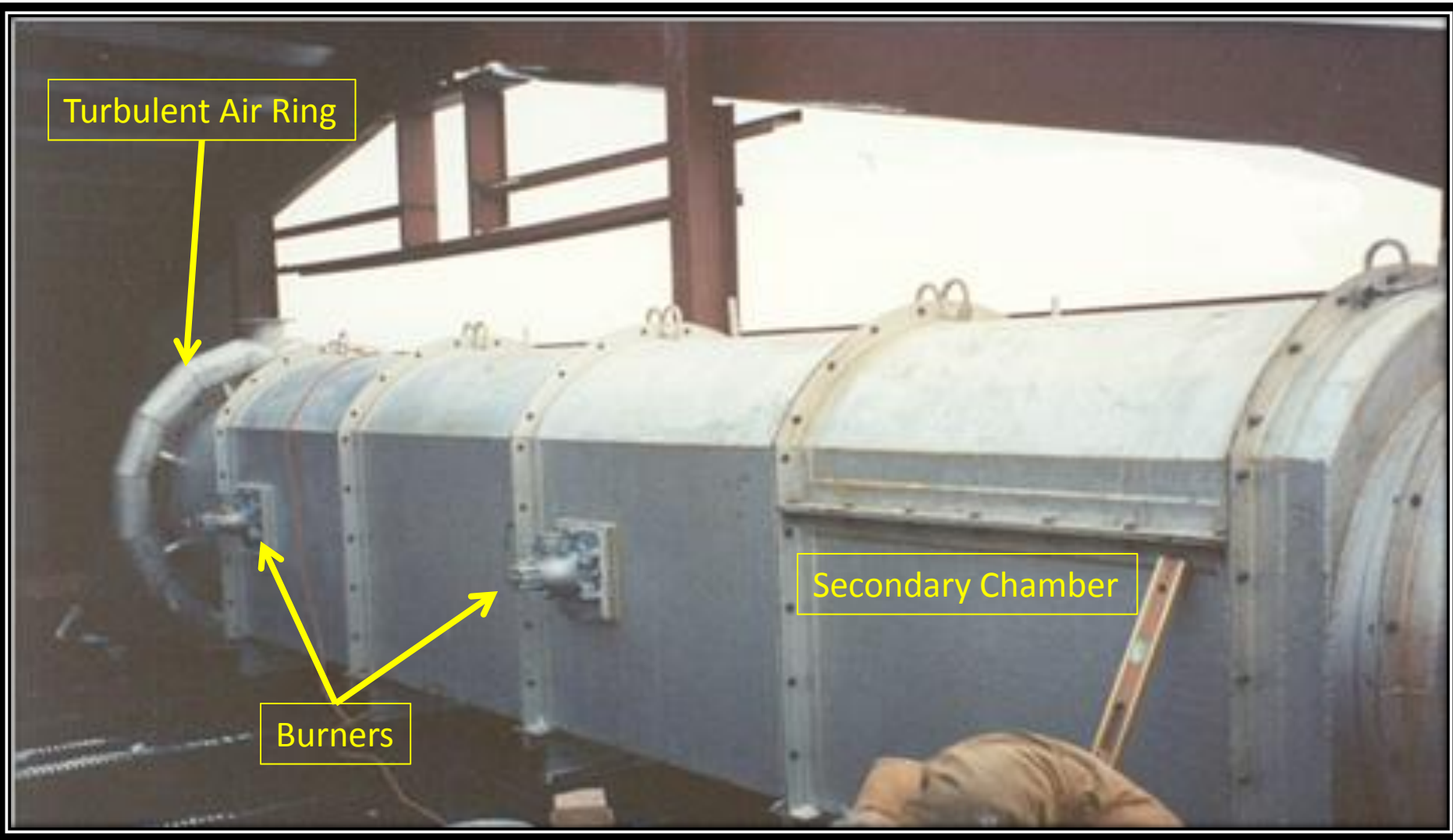
## Secondary Assembly





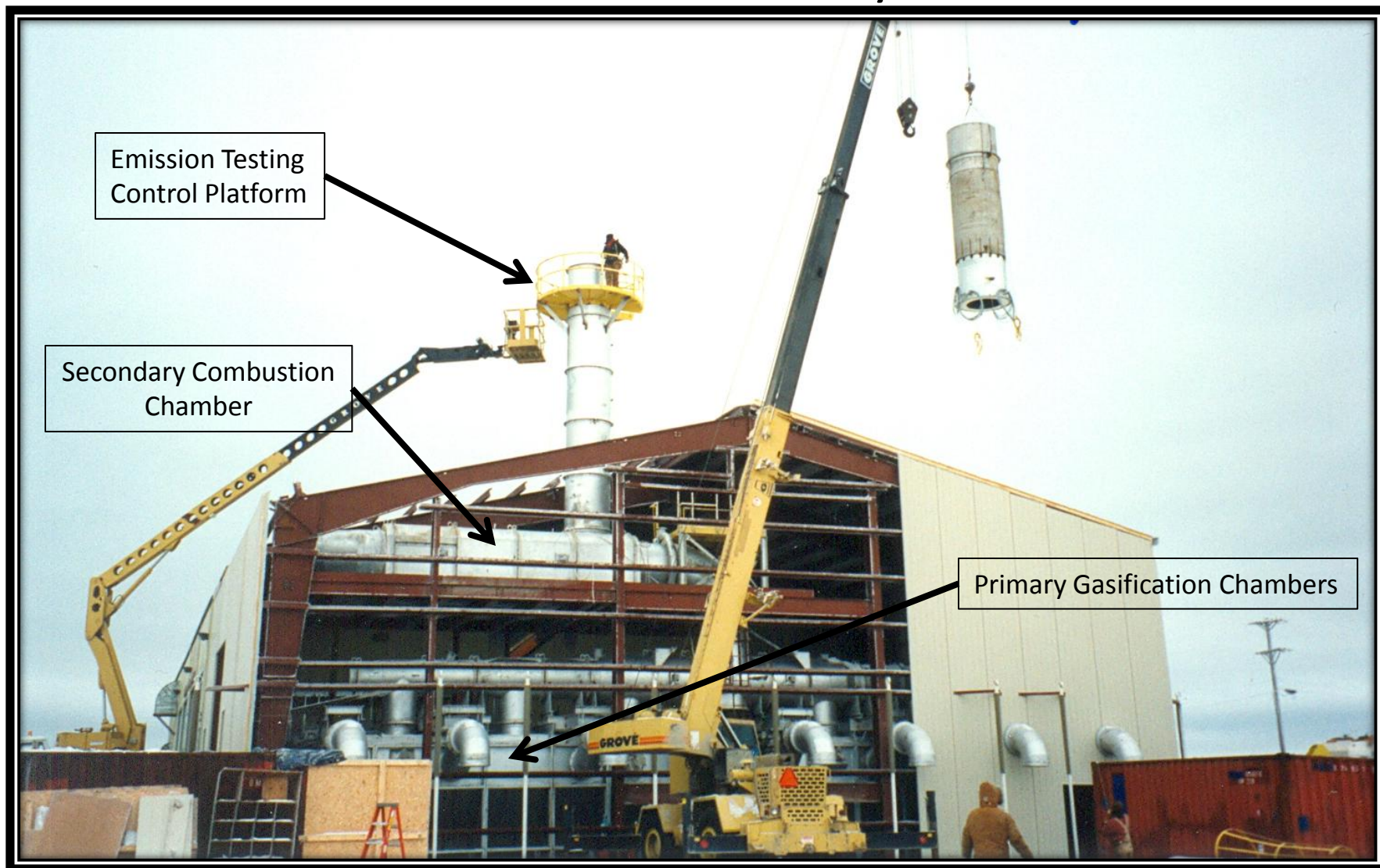


## Secondary Chamber - Turbulent Air Ring





## Stack Assembly







# Dynamis Air Testing Results

Contaminant	Units	Dynamis	EPA	California	EU	Ontario	B.C.
Total Particulate Matter	mg/m3	3.9	24	14	9	12	19
Hydrogen Chloride (HCl)	mg/m3	.01491	37	27	9	19	69
Sulphur Dioxide (SO2)	mg/m3	5.24	78	56	46	37	246
NOx expressed as NO2	mg/m3	62.09	282	202	183	207	344
Carbon Monoxide (CO)	mg/m3	2.29	57	42	47	-	55
Mercury (Hg)	mg/m3	.0000114	.080	.035	.046	.020	.19
Cadium (Cd)	mg/m3	< .00001	.020	.007	.046	.014	.10
Lead	mg/m3	.00000806	.2	.098	-	.142	.049
Dioxins and Furans	ng/m3	.553	13	9	.9	.040	.5

Results are from over 60 tests over the past 15 years.



# Management

- ▲ Lloyd Mahaffey, CEO and Chairman
- ▲ John Johnston, Vice President, Construction and Design
- ▲ Pete Johnson, Vice President, Sales and Marketing
- ▲ Roger Kolb, Vice President and Chief Technology Officer
- ▲ Don Kerr, Vice President, Engineering
- ▲ Steve Teater, Construction Director





# Questions

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