

FOR REFERENCE

Do Not Take From This Room

VF Somerset - Business
Brayton Pt. Power - 2010



Welcome to Brayton Point Station

Brayton Point Station

At A Glance

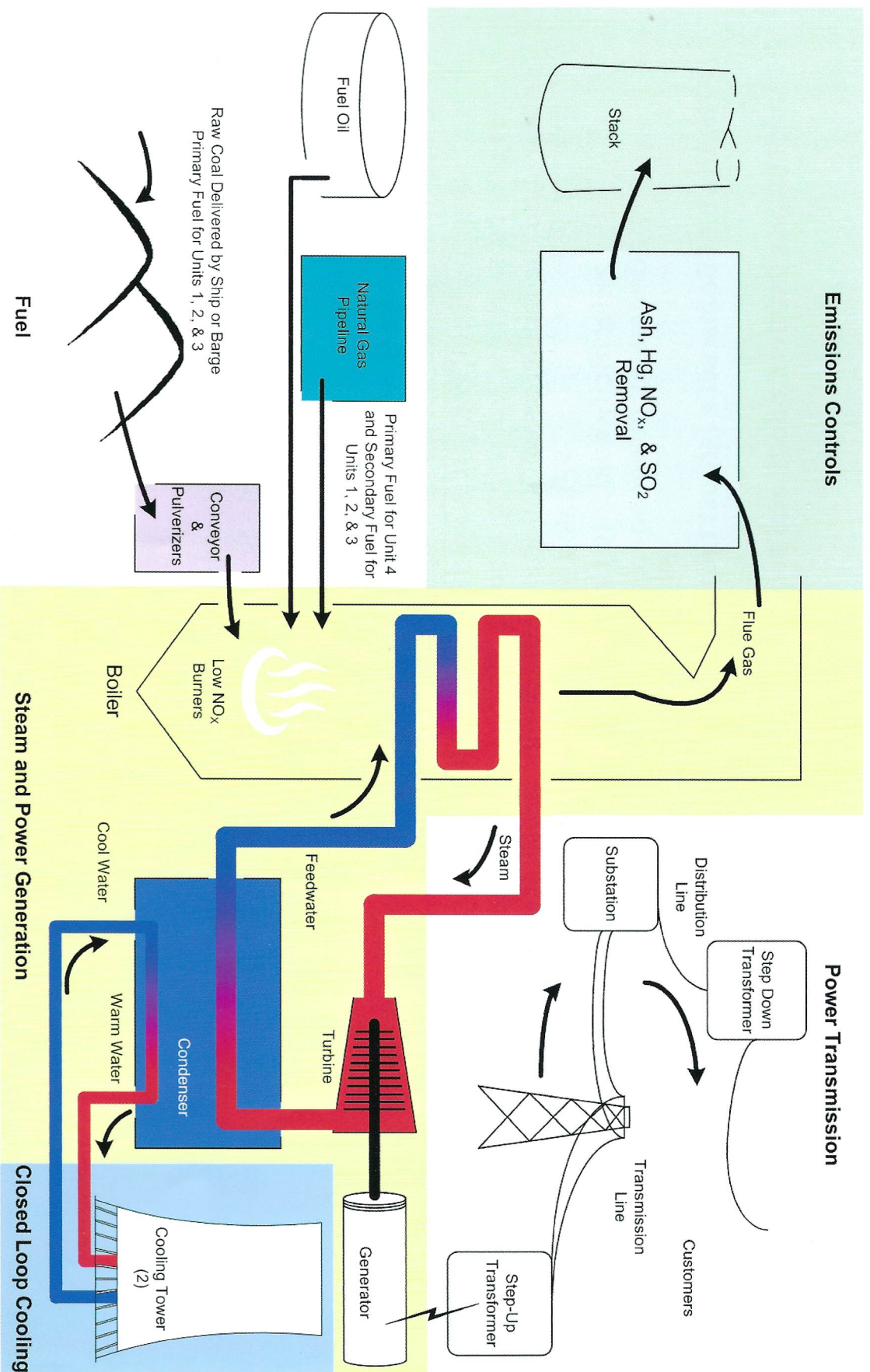
Brayton Point Station supplies electricity to over 1.6 million homes, businesses, hospitals and schools throughout the Southcoast of Massachusetts and Rhode Island.

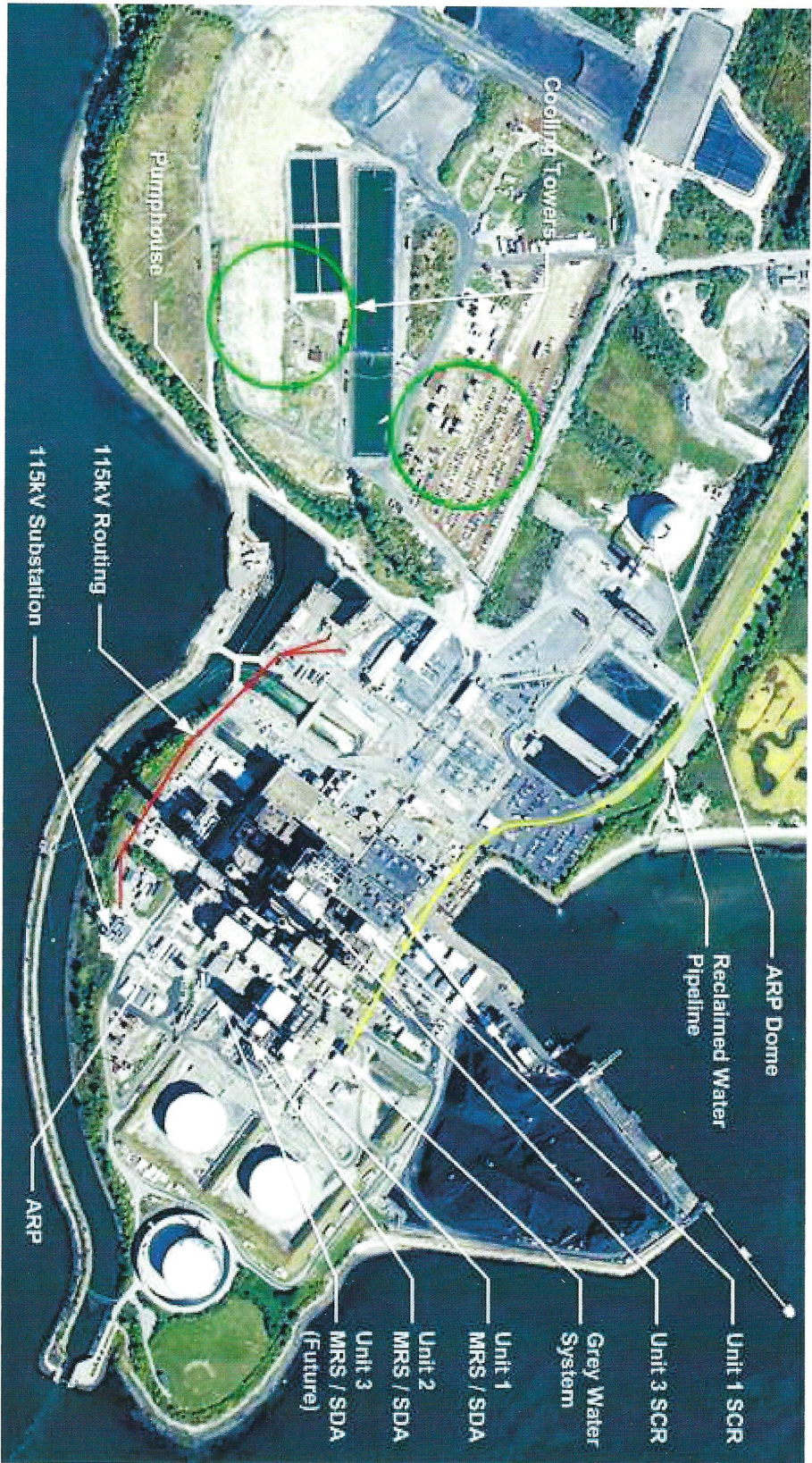
The 1,600-megawatt Brayton Point Station is New England's largest fossil-fueled power plant and one of the region's lowest-cost electricity producers. Competitively priced power from Brayton Point Station is sold into New England's wholesale electric market.

The plant's excellent operating record, combined with its large output of electricity, has established the facility as an important contributor to reliable electric service in the region.

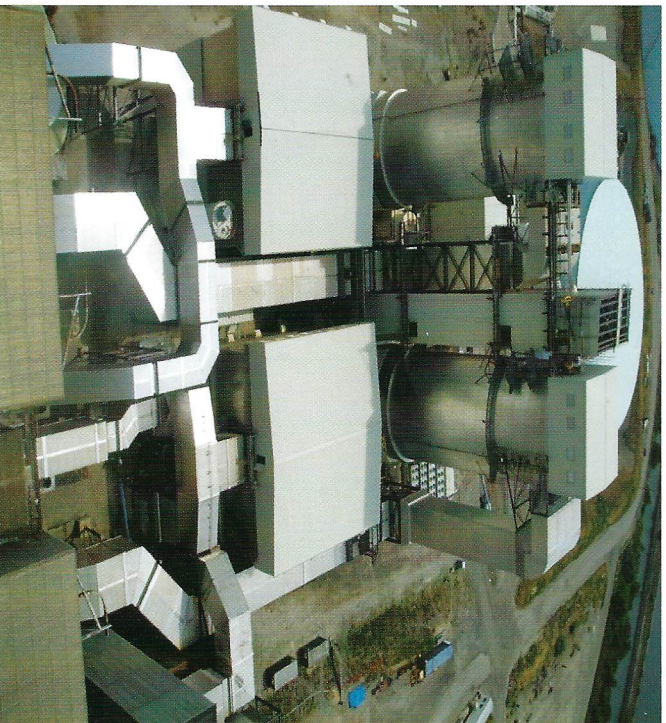
- > Fueled primarily by low-sulfur coal
- > Electricity sold into New England's competitive power market
- > Generates power equal to 8% of New England's electricity supply
- > Employs 260 people
- > The town of Somerset's largest taxpayer, contributing millions of dollars annually in local property taxes
- > \$Millions worth of goods and services purchased from the local economy annually.

Brayton Point Station – Process Overview

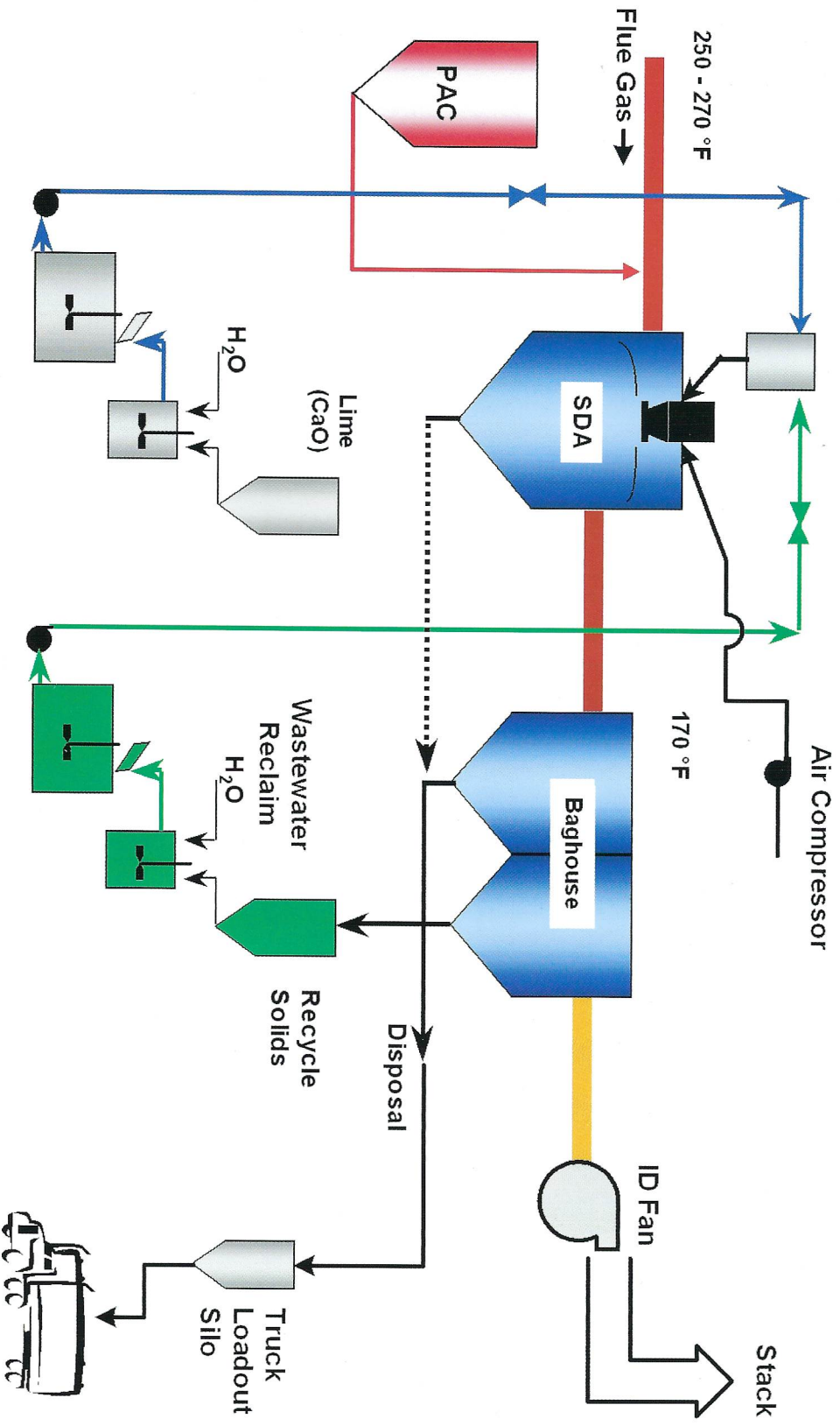




Units 1 & 2 MRS & SDA Projects – Construction Site
\$150 million capital expenditure



Units 1 & 2 MRS & SDA Projects – Process Flow Diagram



Completed projects

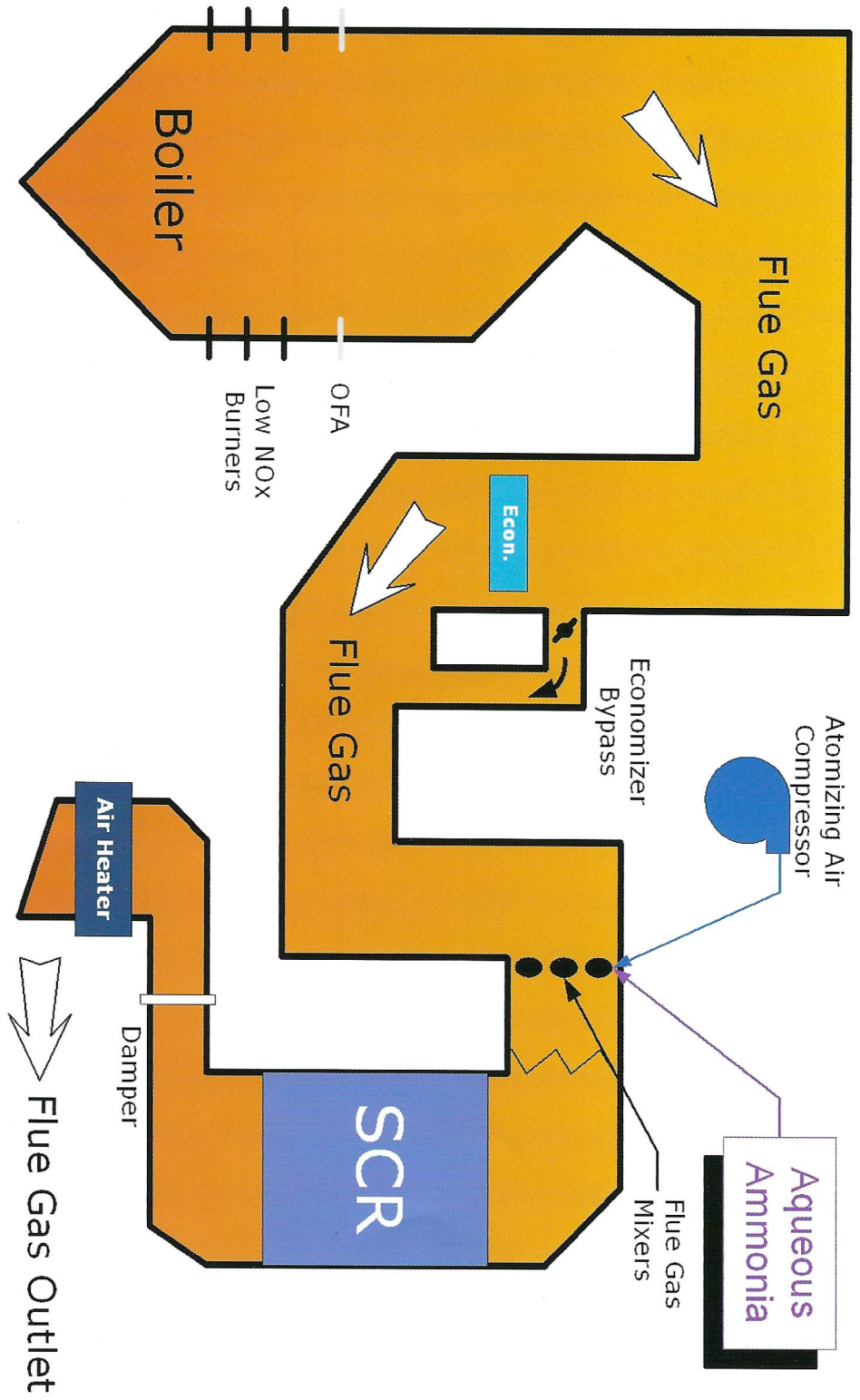
NO_x Reduction Technology – Able to achieve 90% reduction

Selective Catalytic Reduction – Units 1 & 3 Selective Catalytic Reduction (SCR)

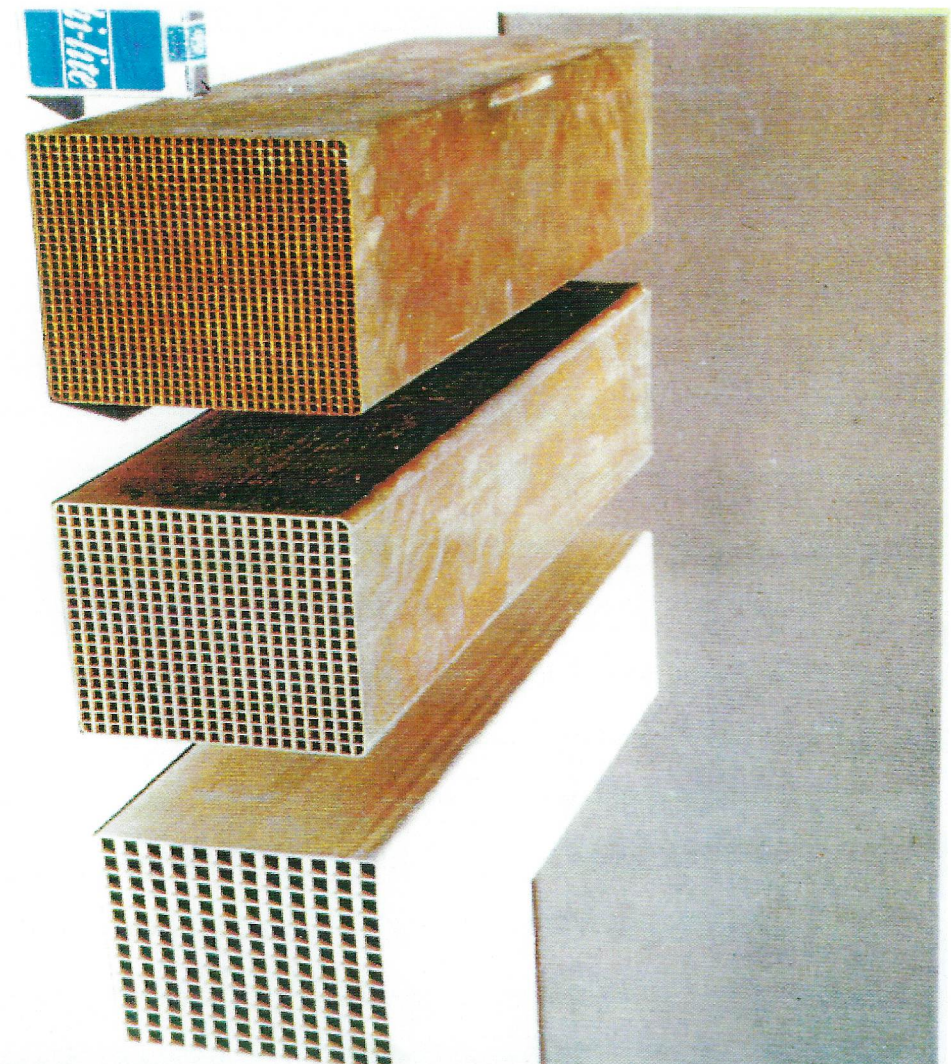
In service in 2006; meeting compliance dates and emission limit requirements

\$180 million capital expenditure

Flow Diagram

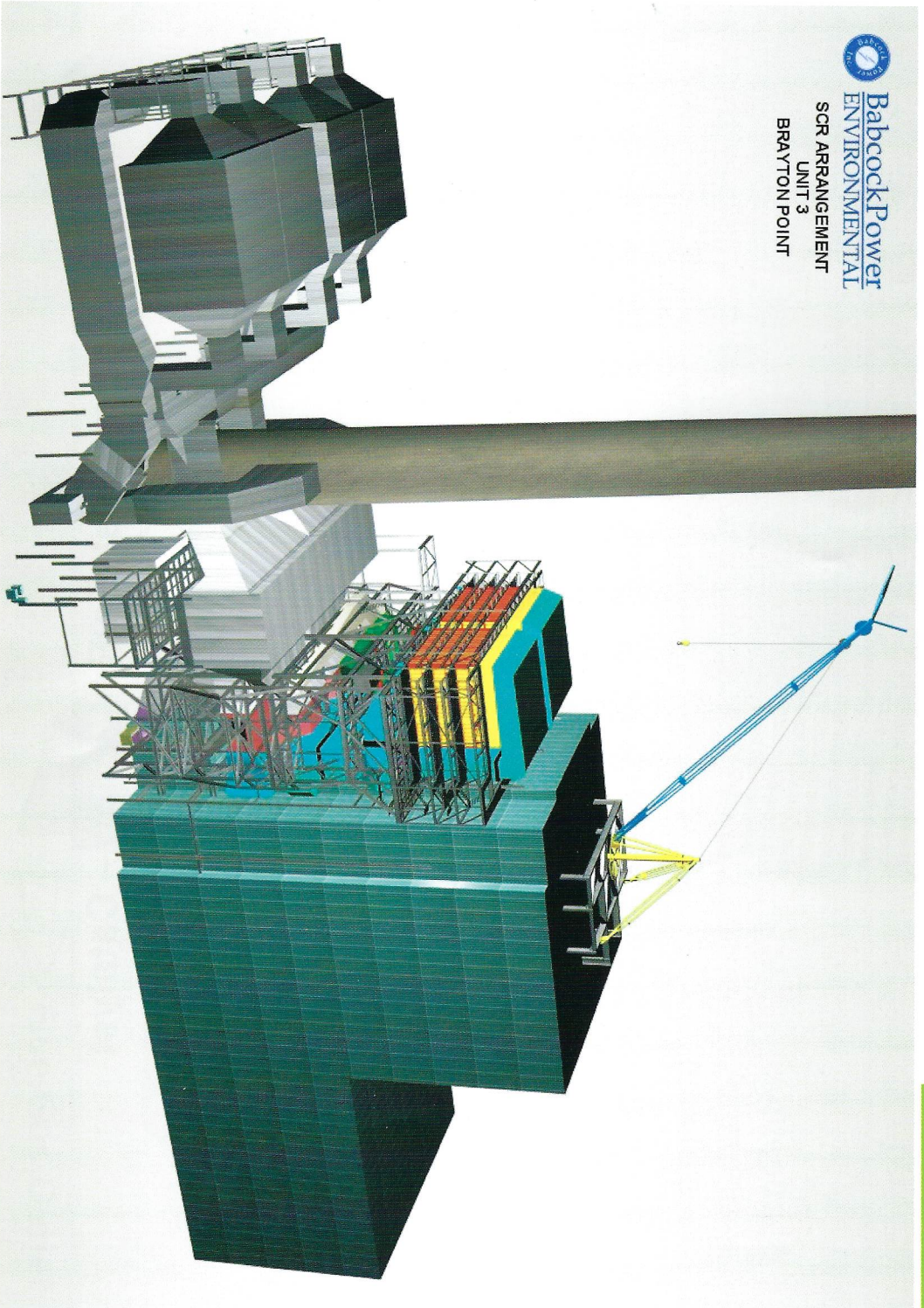


Selective Catalytic Reduction – Catalyst



- Unit 3 – 504 total catalyst modules = 1,500,000 pounds
- Unit 1 – 225 total catalyst modules = 600,000 pounds

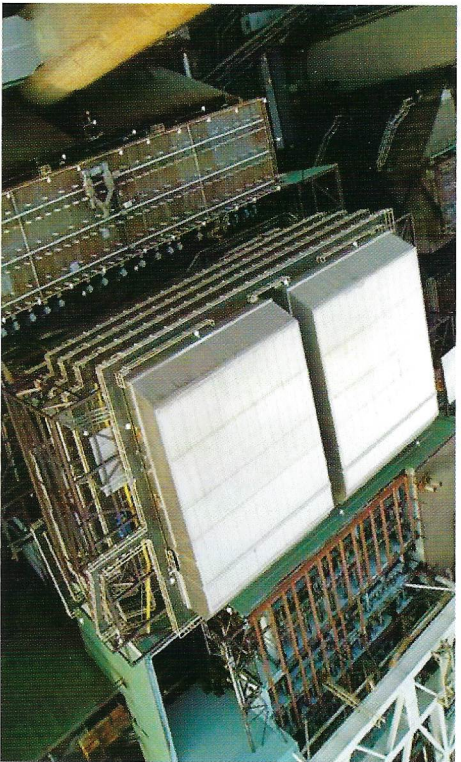
Selective Catalytic Reduction – Unit 3 Arrangement



Selective Catalytic Reduction



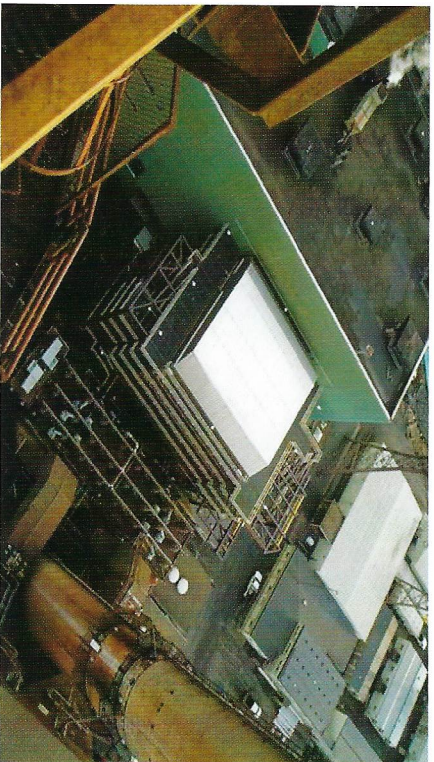
Unit 3 SCR



Unit 3 SCR– Aerial View



Unit 1 SCR



Unit 1 SCR– Aerial View

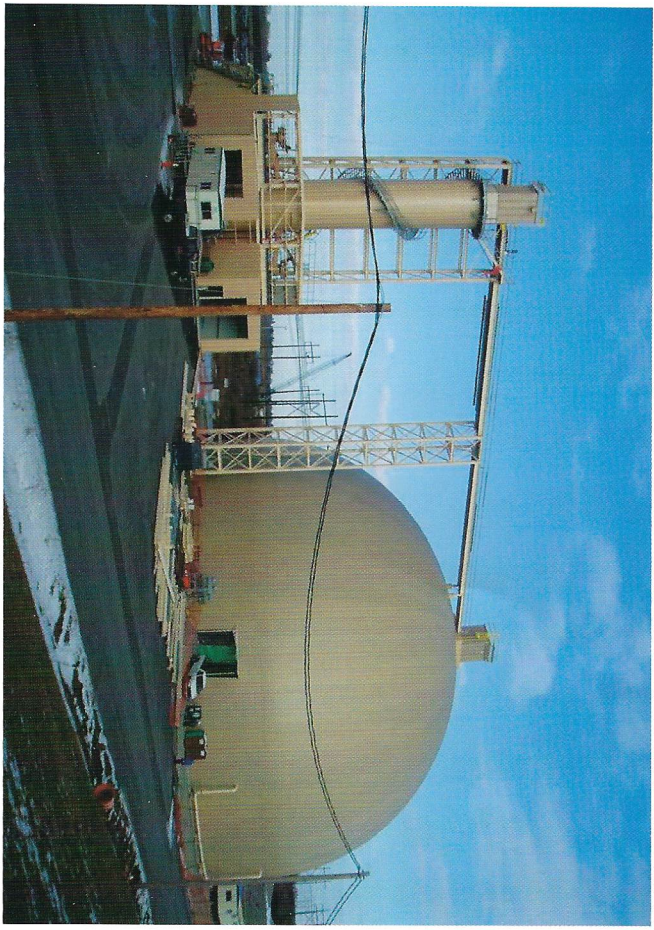
Selective Catalytic Reduction – Aqueous Ammonia Storage & 115kV Substation



Ash Recycling Process



Process Building



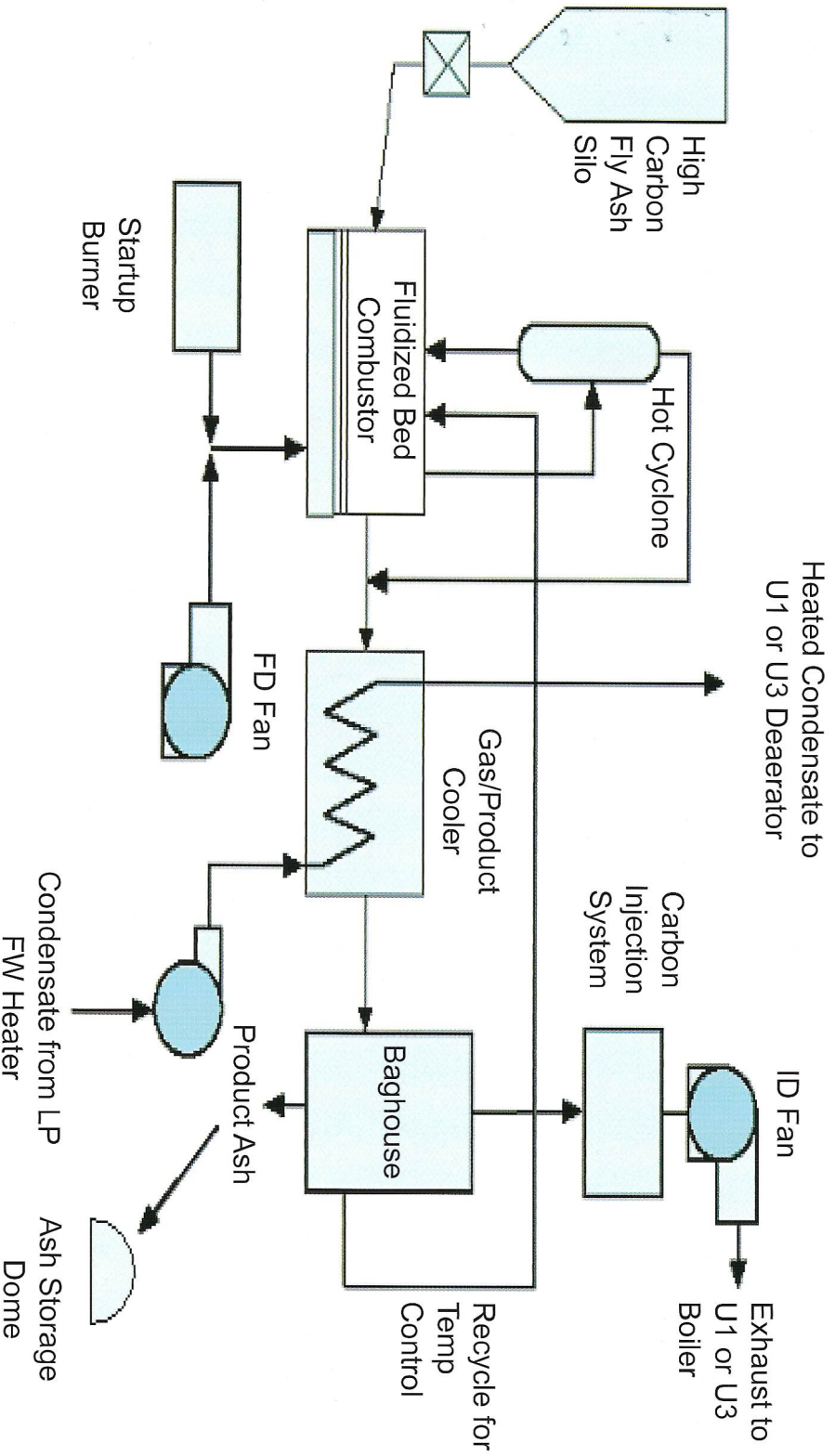
Product Ash Dome and Truck Loadout

Completed Projects

Ash Recycling Process – In service, August, 2006

Brayton Point recycles 100% of the ash produced for commercial use
\$49 million capital expenditure

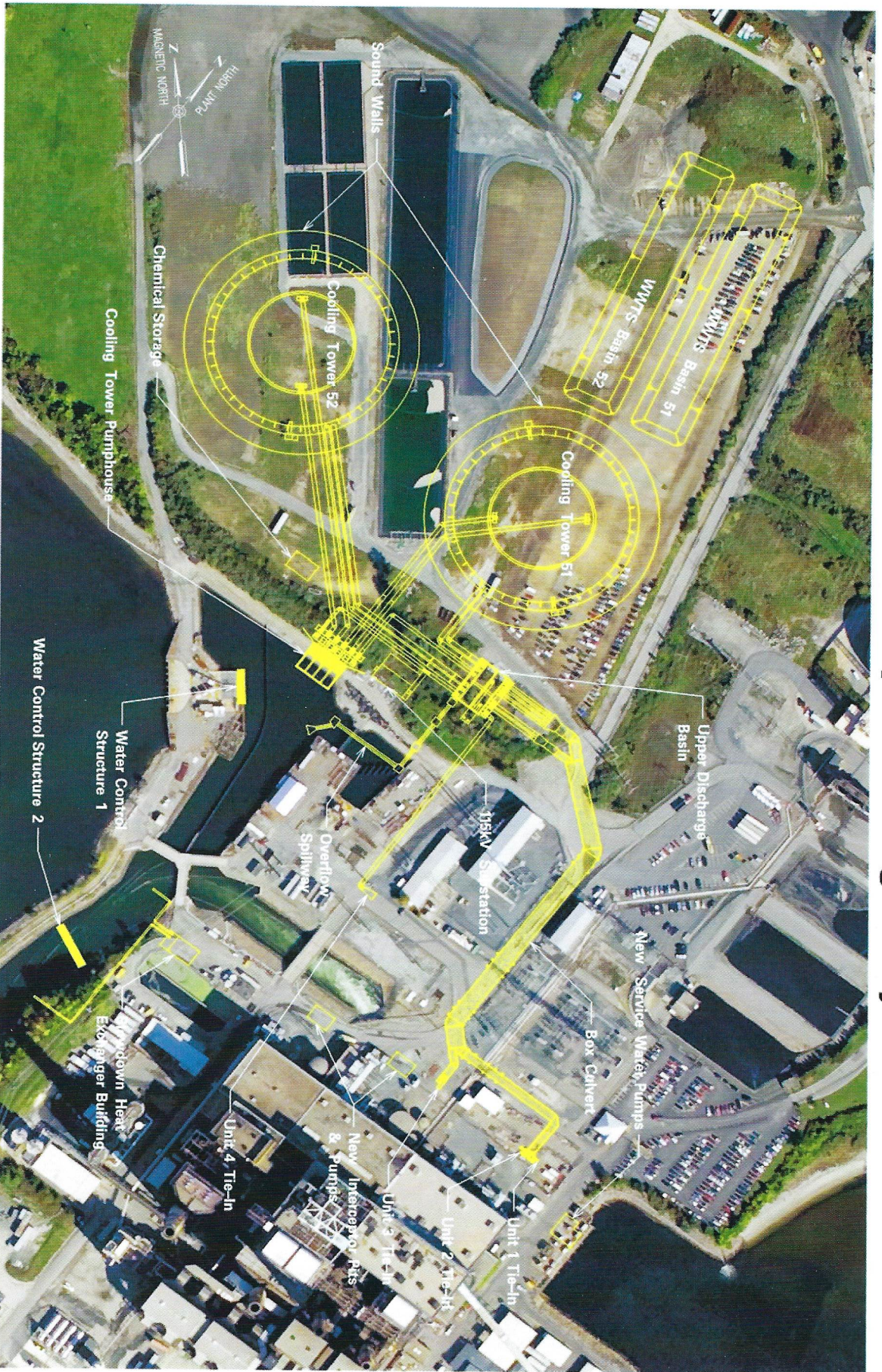
Flow Diagram



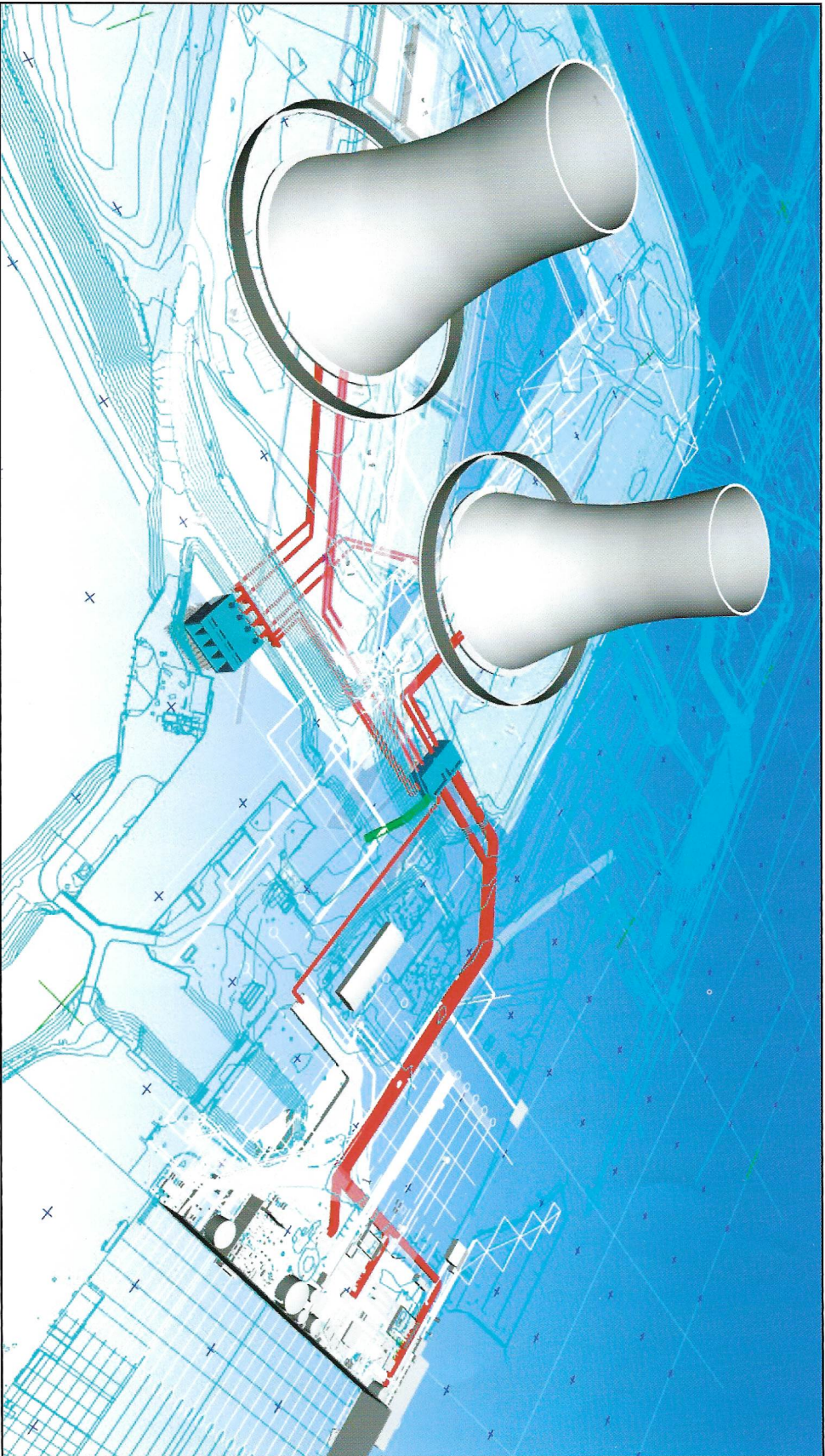
Ash Recycling Process – Product Ash Dome Interior



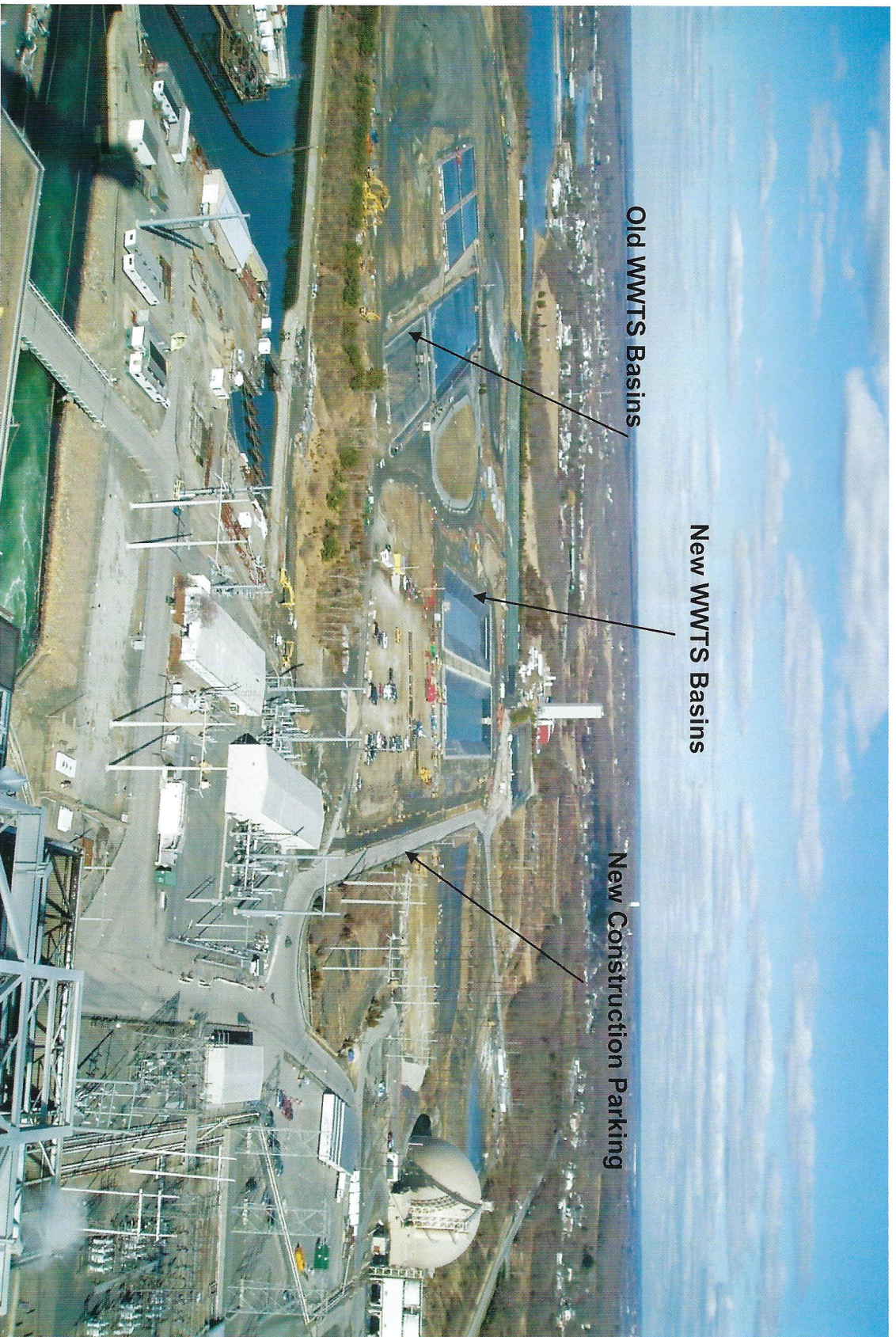
Brayton Point Closed Loop Cooling Project Overview



Natural Draft Cooling Tower 3D Model Integration



Cooling Tower – View Looking North



March 2009

Closed Loop Cooling – View Looking North

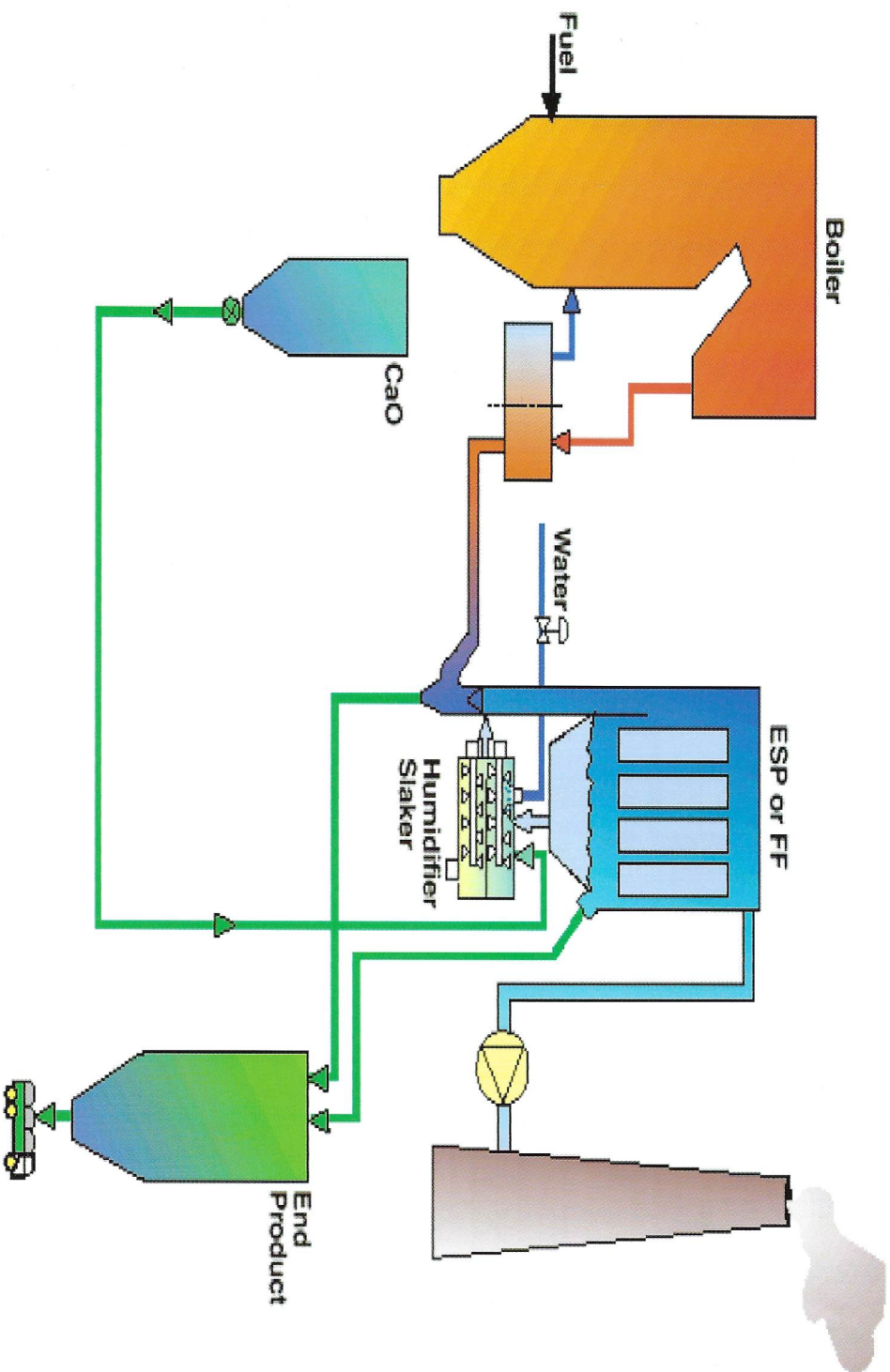


January 10, 2010

Sept. 2010



Unit 3 Scrubber – Circulating Dry Scrubber (CDS)





Dominion[®]

Community Affairs Information:

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