Appendix 5.

Significant Environmental Impacts

Reference: HCF Procedure A-13

List of Review/Revisions

Revision Number	Date of Revision or Review	Date of last Impact Revision	Person Reviewing or Revising and Remarks
Review	9/14/06		Chuck Barnes, Revision 5 of the Manual
Review	10/17/07	11/11/07	Chuck Barnes, Annual Management Review, added trash/non-hazardous waste (Recycle)
Review	3/14/08	3/14/08	Review
Review	7/16/09	7/16/09	Review
Review	9/6/2010	9/6/2010	Update Revision 6 of EMS Manual

Report of Significant Aspects and Impacts

GDF SUEZ

HOPEWELL COGENERATION FACILITY

Area of the Plant Category	Stages	Impact Rating	Cross-Reference Activity	Cross-Reference Legal	Cross-Reference Checklist	Related Procdedures and Related Monthly Training Classes	Remarks
Boiler Operations							
Air Quality	Point Source Air Emissions	60	Air Emission Report	F001	Environmental Air Inspection NSPS	Quarterly Air Report Air Permit	
Chemical Handling and Storage							
Water Quality	Chemical Spill	48	Daily Environmental Checks by Operators	F067	Daily Environmental Inspection Check-off	Fuel Groundwater Testing and Reporting Chemical Response and Spill Kits	
Land Quality	Chemical Spill	56	Daily Environmental Checks by Operators	F067	Daily Environmental Inspection Check-off	Fuel Groundwater Testing and Reporting Chemical Response and Spill Kits	

Area of the Plant Category	Stages	Impact Rating	Cross-Reference Activity	Cross-Reference Legal	Cross-Reference Checklist	Related Procdedures and Related Monthly Training Classes	Remarks
Cooling Tower Operations							
Land Quality	Tower Water Bypass	70	Daily Environmental Checks by Operators	N/A	N/A	Water Permit and Stormwater	
Diesels							
Consumption	Diesel Fuel Use	56	Daily Environmental Checks by Operators	S052	Midnight Report	Fuel Distribution Report Air Permit	
Distribution Piping							
Water Quality	Spill steam Chemicals	48	Fuel Tank 5 Year Piping Hydro	F065	Daily Environmental Inspection Check-off	Fuel Groundwater Testing and Reporting Chemical Response and Spill Kits	
Energy Conservation							
Consumption	Water Use	45					ISO 5001

Area of the Plant Category	Stages	Impact Rating	Cross-Reference Activity	Cross-Reference Legal	Cross-Reference Checklist	Related Procdedures and Related Monthly Training Classes	Remarks
Consumption	Natural Gas Use	45					ISO 5001
Consumption	Electrical Use	45					ISO 5001
Entire Plant							
Waste Management	Normal Daily Waste	108	Housekeeping	N/A	N/A	RCRA, CERCLA, & Waste Disposal / Recycling	Recycling Efforts are increasing. Reduction efforts are in place, such as two sided printing. Reuse of File folders, boxes, shiping containers, etc.
GHG Reduction							
Air Quality	Air Quality	54	Air Emission Report	F001	Environmental Air Inspection NSPS	Quarterly Air Report Air Permit	

Area of the Plant Category	Stages	Impact Rating	Cross-Reference Activity	Cross-Reference Legal	Cross-Reference Checklist	Related Procdedures and Related Monthly Training Classes	Remarks
Hazardous Waste Handling & Storage							
Land Quality	Waste Spills	48	Daily Environmental Checks by Operators	F010	Daily Environmental Inspection Check-off	Fuel Groundwater Testing and Reporting Chemical Response and Spill Kits	
State Environmental Goals							
Water Quality	Water Quality	48	VPDES Stormwater Testing	S054		Annual Wastewater Certification Water Permit and Stormwater	
Air Quality	Air Quality	48	Air Emission Report	F001	Environmental Air Inspection NSPS	Quarterly Air Report Air Permit	
Turbine Operations Combined Cycle							
Air Quality	Point Source Air Emissions	70	Air Emission Report	F001	Environmental Air Inspection NSPS	Quarterly Air Report Air Permit	

Area of the Plant / Category	Stages	Impact Rating	Cross-Reference Activity	Cross-Reference Legal	Cross-Reference Checklist	Related Procdedures and Related Monthly Training Classes	Remarks
Hearing Loss	Noise Generation	56	Annual Sound Survey	L003	N/A	PM 0036 Hearing Conservation	
Vehicle and Equipment Maintenance							
Air Quality	Point Source Air Emissions	48	Daily Forklift Inspection	F001	Forklift Daily Inspection	Daily Vehicle Checks Air Permit	
Wastewater Outfalls							
Water Quality	Point Source of water Emissions	80	VPDES Samples	S054	Environmental Water Inspection Check-List	VPDES Samples Water Permit and Stormwater	
Water Treatment Plant							
Hearing Loss	Noise Generation	48	Annual Sound Survey	L003	N/A	PM 0036 Hearing Conservation	

Number of Aspects that are Significant: 19