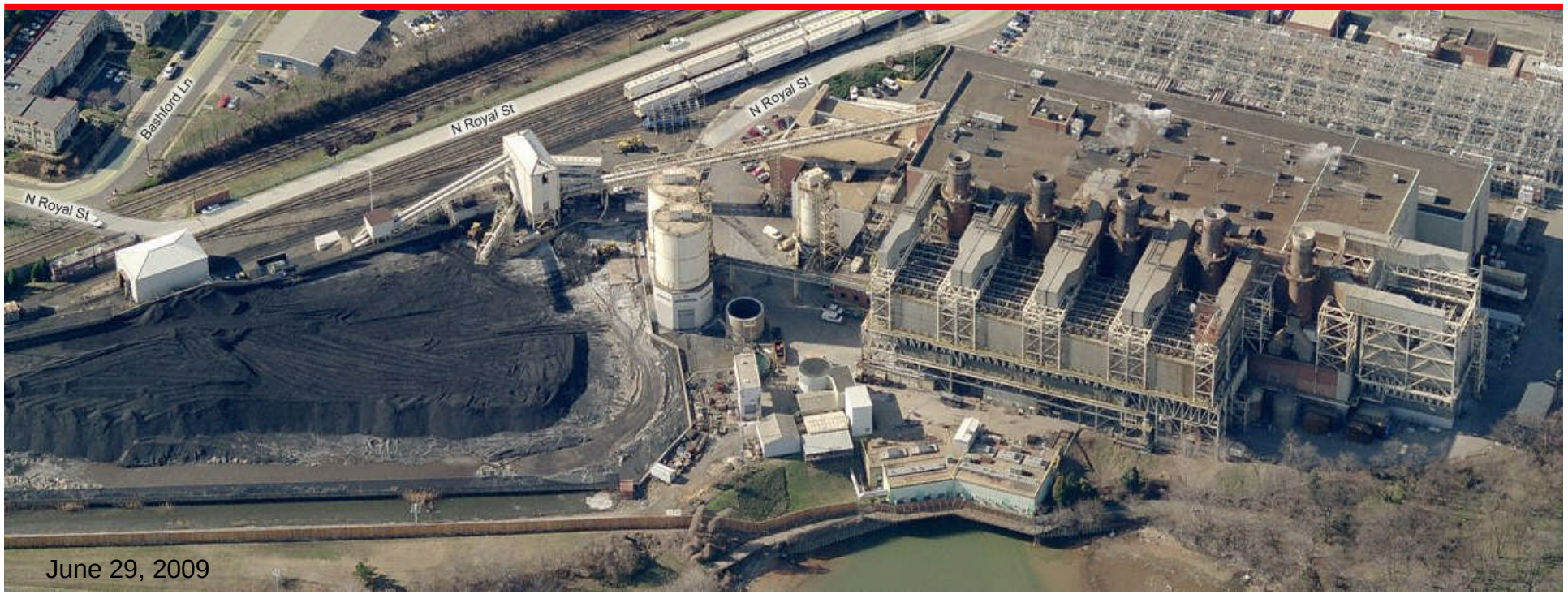
WorleyParsons

resources & energy

Prepared for

Phase I Coal Pile Windscreen



June 29, 2009

SLATERS LANE

EAST ABINGDON DRIVE

U.S. GOVT.

POTOMAC RIVER

N

PRECIPITATOR UNIT 5

PRECIPITATOR UNIT 4

PRECIPITATOR UNIT 3

PRECIPITATOR UNIT 2

PRECIPITATOR UNIT 1

TURBINE ROOM

CONTROL ROOM

BOILER ROOM

TURBINE ROOM

NEW ADMIN ADDITION

SCREEN HOUSE

PROPERTY LINE INFORMATION

BECHTEL ENG. C-002 JOB 11606

(SCREEN HOUSE PERPETUAL EASEMENT AND WATER RIGHT DOC. PATH FROM PEPCO LEGAL DEPARTMENT)

SOUTHERN RAILROAD

COAL STORAGE YARD

SEDIMENT BASIN

OLD CAR TRACK SCALE

U.S. GOVT.

POTOMAC RIVER

MATCH LINE

DERAILER

EDGE OF FIRST STREET

DETACHED PLAN

------- ELECTRICAL- UNDERGROUND

——————— PROPERTY LINE

------- PIPING- UNDERGROUND

SCALE: 1"=500'

MODIFICATIONS
11/18/96

ORIGINAL SITE PLAN BY DESIGN SVCS
5/23/96

POTOMAC RIVER GENERATING STATION "C"

99-091 POTOMAC RIVER TIME 1042

6-11-99 1500' AMT

WILD 15/4 UAGA-F
1/r 13162 153.47

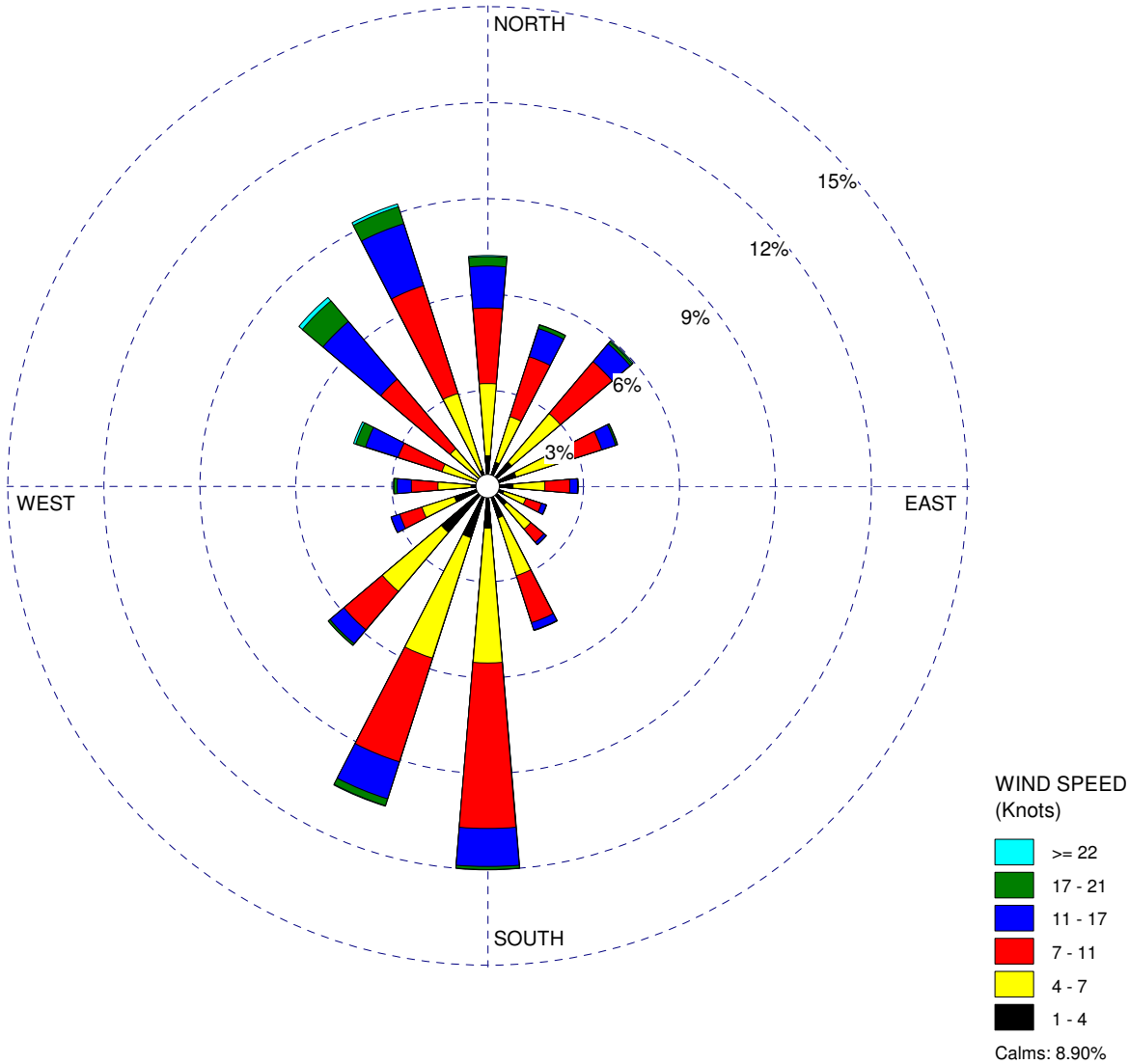
WIND ROSE PLOT:

WInd Rose based on the AERMET output surface file for 2000-2004

DISPLAY:

Wind Speed
Direction (blowing from)

AERMET is a preprocessor for organizing meteorological data for use in air quality dispersion models for the National Weather Service (NWS).

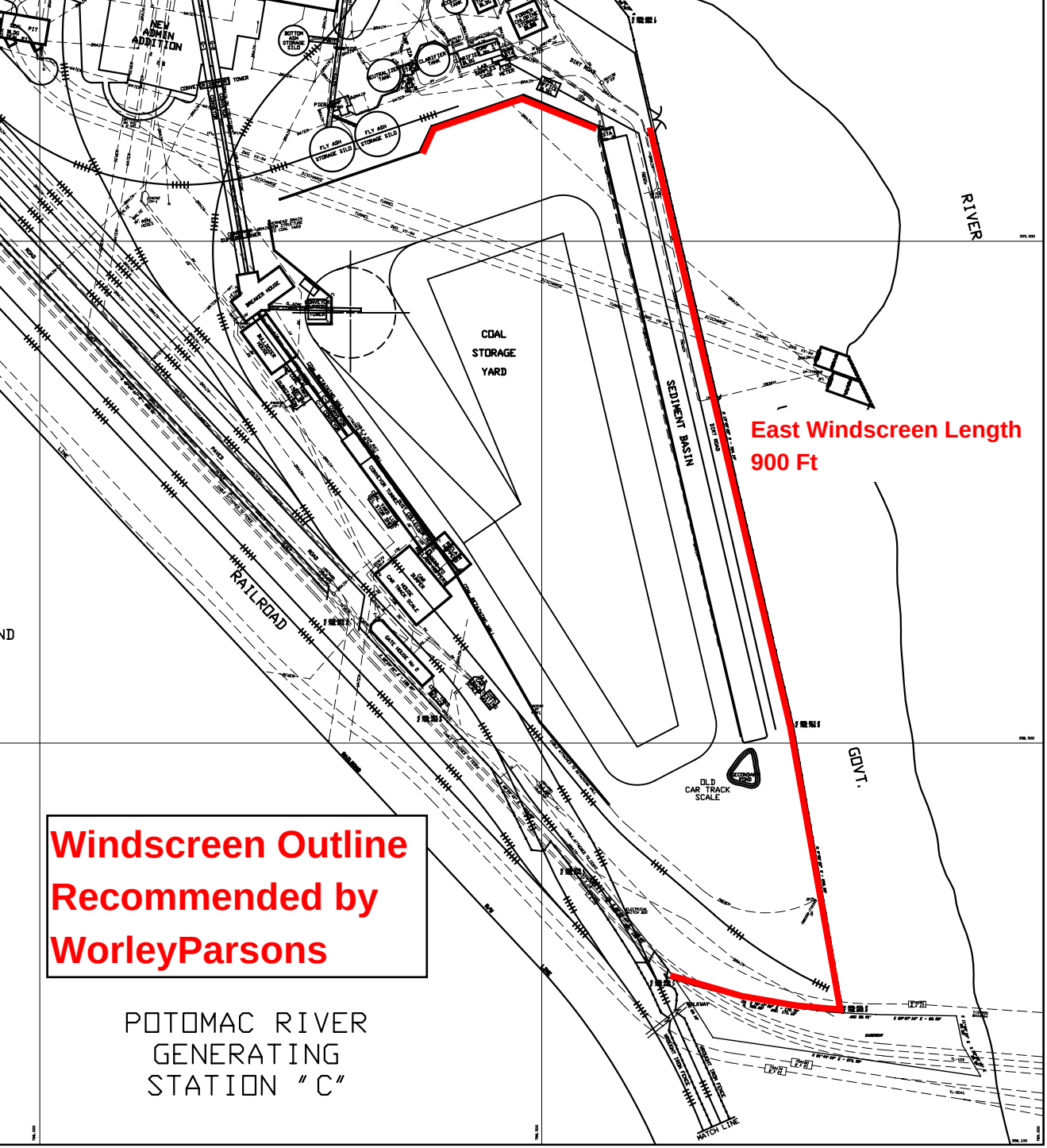


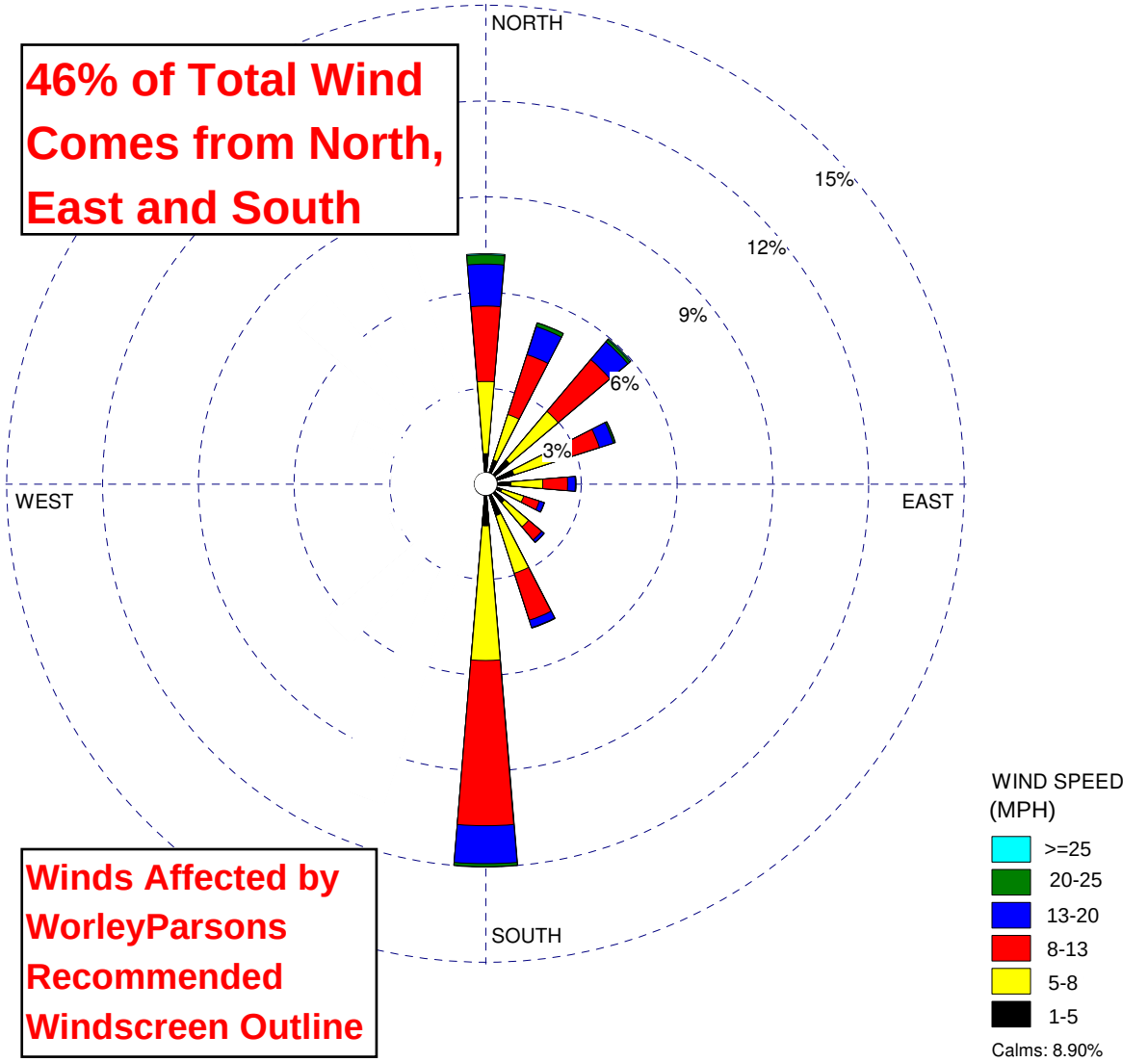
Provided to WorleyParsons by Mirant

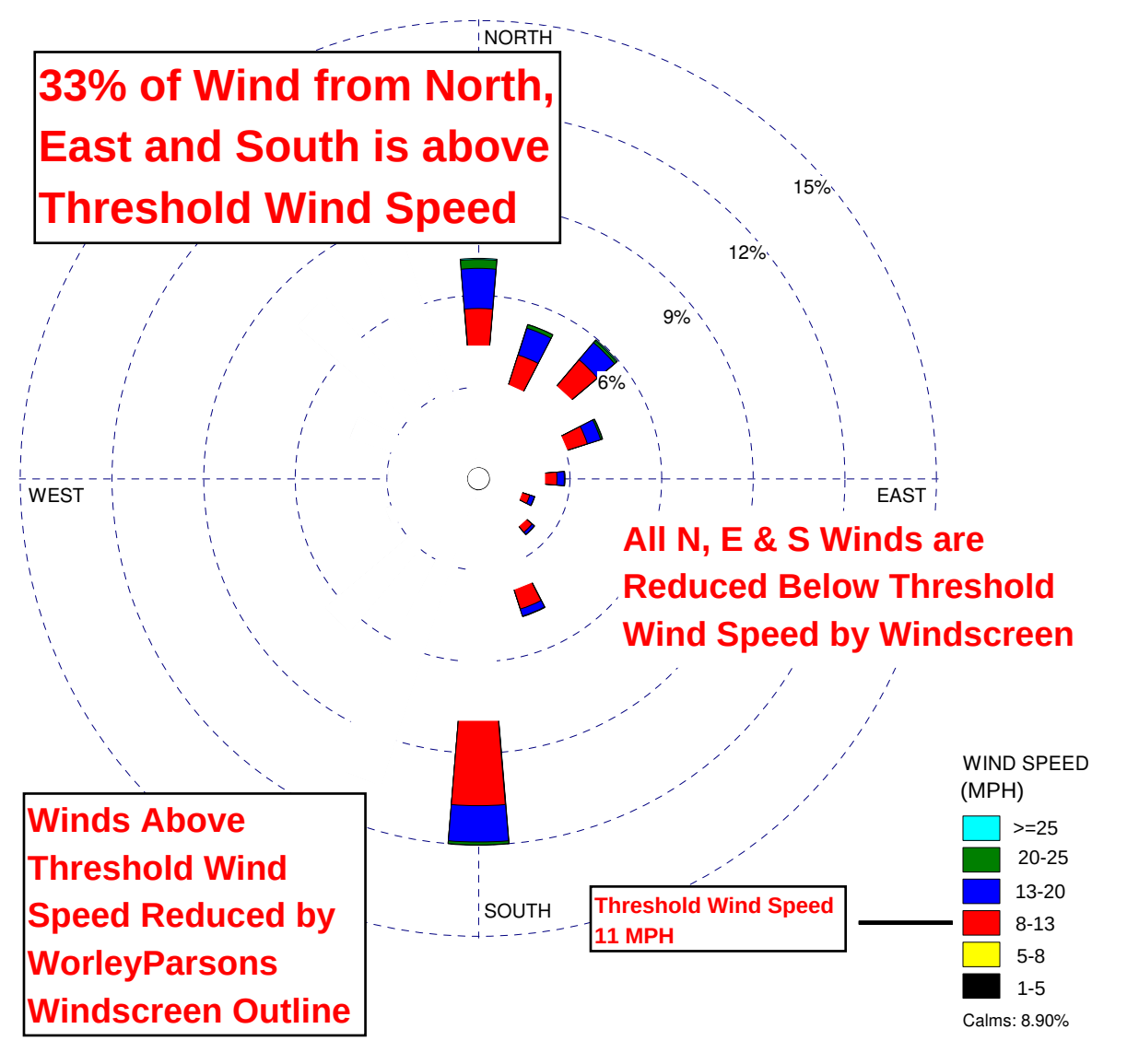
COMMENTS:	DATA PERIOD:	COMPANY NAME:	
Winds from Reagan National Airport	**2000-2004** **Jan 1 - Dec 31** **00:00 - 23:00**	MODELER:	
	CALM WINDS: **8.90%**	TOTAL COUNT: **43403 hrs.**	
	AVG. WIND SPEED: **7.57 Knots**	DATE: **2/2/2007**	PROJECT NO.:

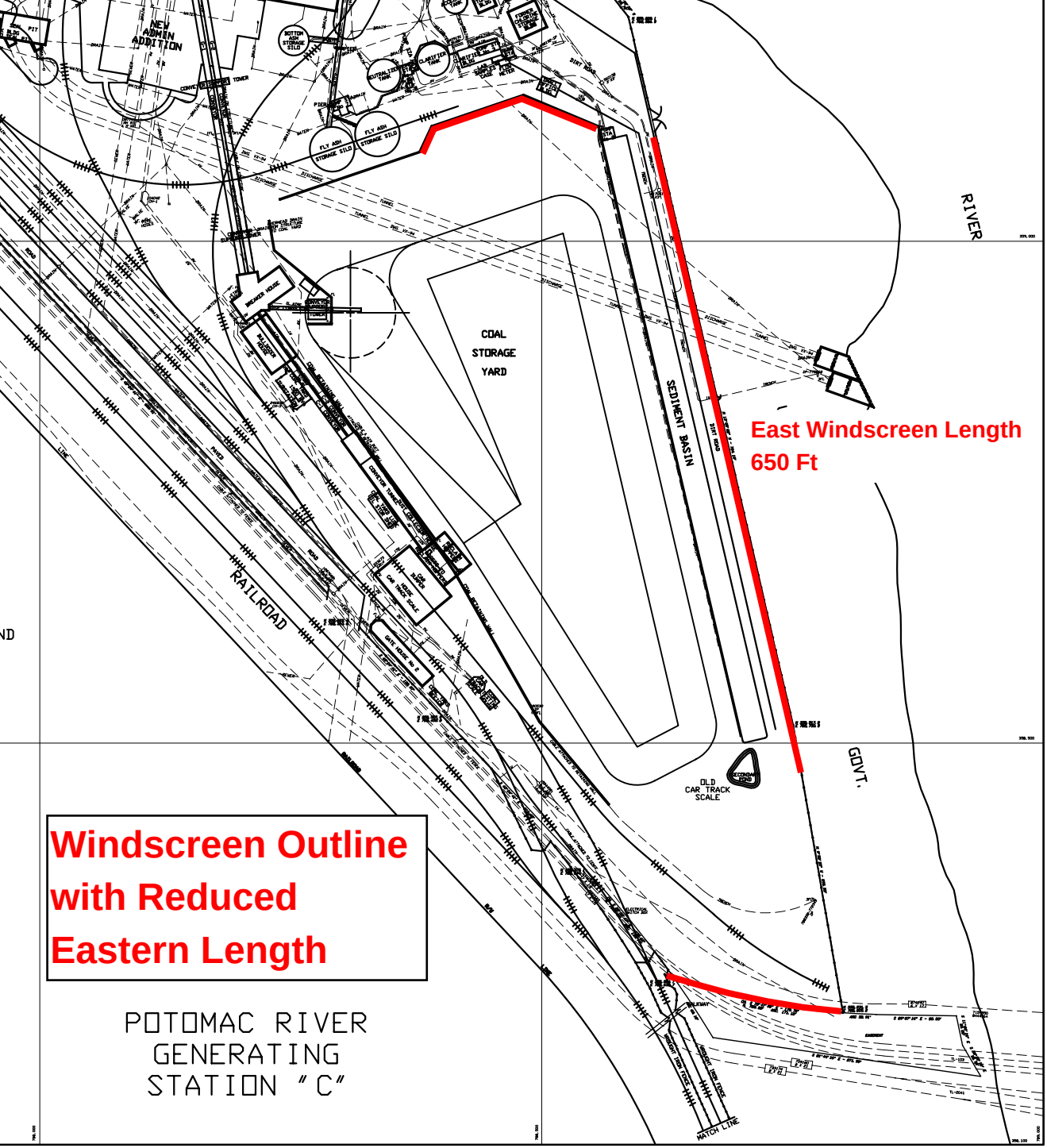
Mirant Potomac River Generating Station
30' High Windscreen Dust Control
Aerial View Looking North

Mirant Potomac River Generating Station
30' High Windscreen Dust Control
View Looking North at South End of Plant


NEW ADMIN ADDITION
FLY ASH STORAGE SILO
FLY ASH STORAGE SILO
COAL STORAGE YARD
SEDIMENT BASIN
RIVER
East Windscreen Length
900 Ft
RAILROAD
GOVT.
OLD CAR TRACK SCALE
Windscreen Outline Recommended by WorleyParsons
POTOMAC RIVER GENERATING STATION "C"


46% of Total Wind Comes from North, East and South
NORTH
15%
12%
9%
6%
3%
WEST
EAST
SOUTH
Winds Affected by WorleyParsons Recommended Windscreen Outline
WIND SPEED (MPH)
>=25
20-25
13-20
8-13
5-8
1-5
Calms: 8.90%


33% of Wind from North, East and South is above Threshold Wind Speed
NORTH
15%
12%
9%
6%
WEST
EAST
SOUTH
All N, E & S Winds are Reduced Below Threshold Wind Speed by Windscreen
Winds Above Threshold Wind Speed Reduced by WorleyParsons Windscreen Outline
Threshold Wind Speed 11 MPH
WIND SPEED (MPH)
>=25
20-25
13-20
8-13
5-8
1-5
Calms: 8.90%


NEW ADMIN ADDITION
COAL STORAGE YARD
SEDIMENT BASIN
RIVER
RAILROAD
GOVT.
OLD CAR TRACK SCALE
East Windscreen Length
650 Ft
Windscreen Outline with Reduced Eastern Length
POTOMAC RIVER GENERATING STATION "C"

Mirant Potomac River Generating Station
30' High Windscreen Dust Control
View Looking North at South End of Plant
Reduced Eastern Length