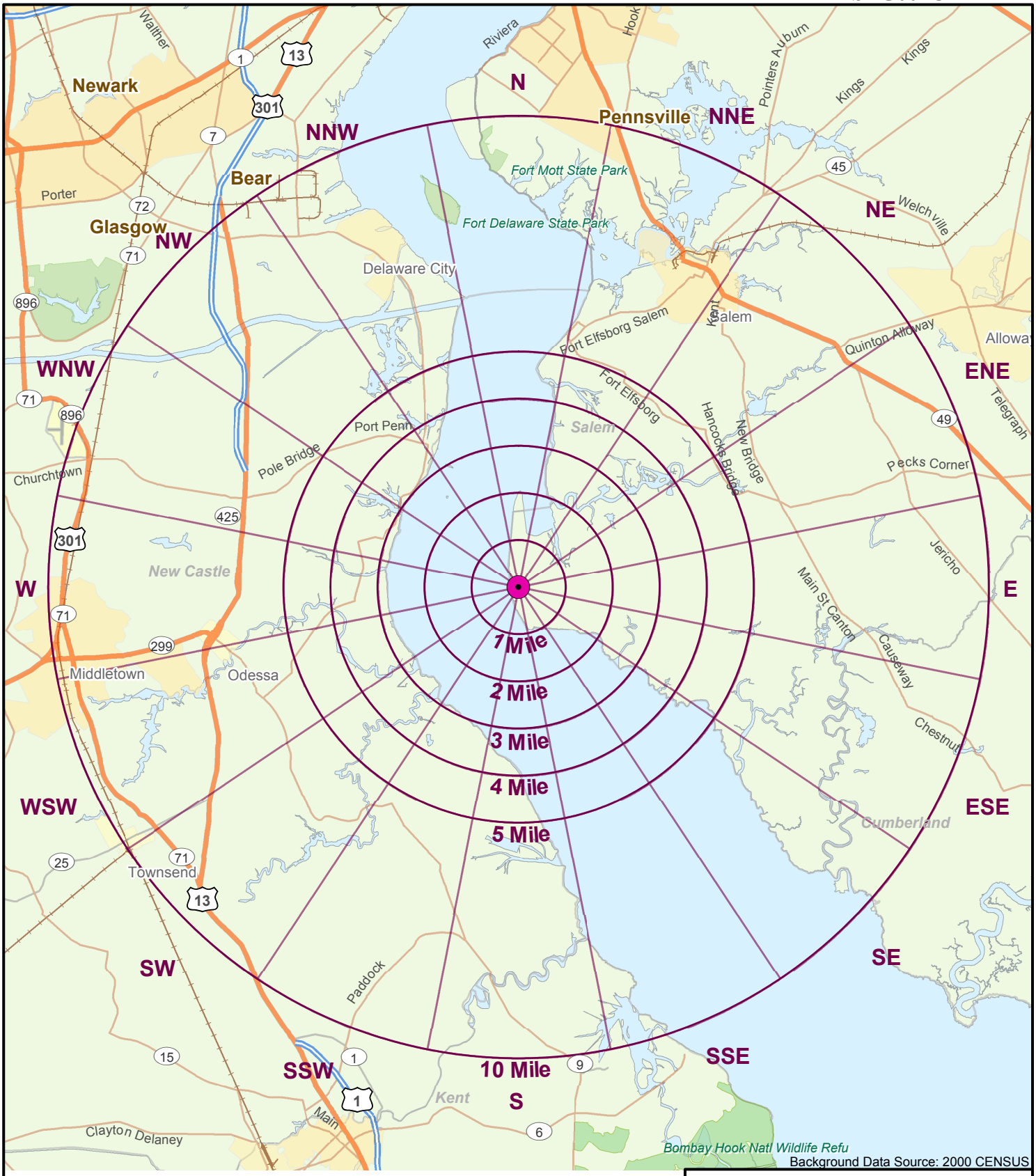


LEGEND

- Site Location
- Direction Sector
- 10-mile (16 km) Concentric Ring

N
W E
S

0 2 4
Kilometers
0 1 2
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

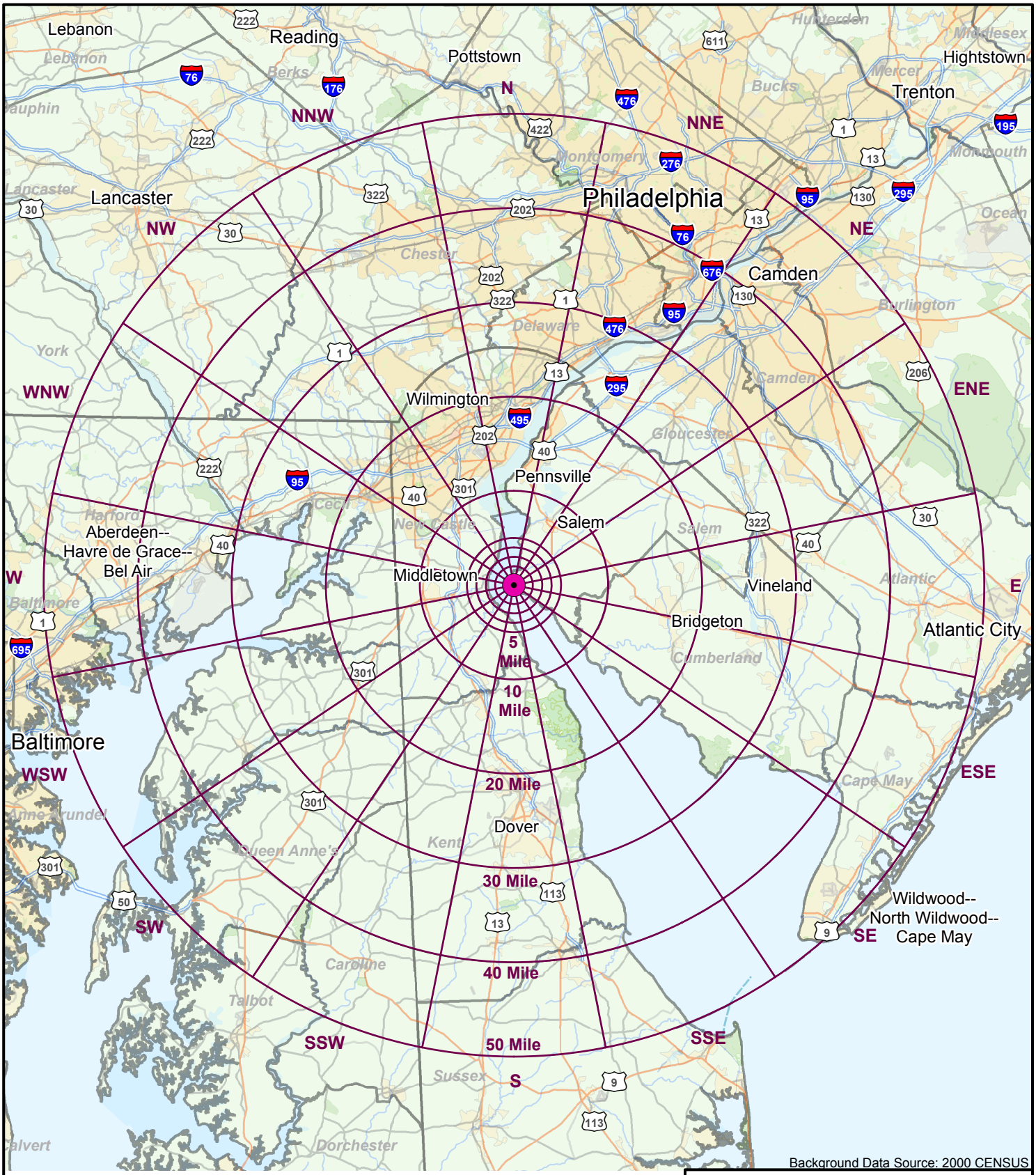
PSEG Site
10 Mile Region with
Direction Sectors Identified

FIGURE 2.1-1 Rev 0

United States Nuclear Regulatory Commission Official Hearing Exhibit

In the Matter of: PSEG POWER, LLC AND PSEG NUCLEAR, LLC (Early Site Permit Application)

ASLBP #:	15-943-01-ESP-BD01		
Docket #:	05200043		
Exhibit #:	PSEG004C-MA-BD01	Identified:	03/24/2016
Admitted:	03/24/2016	Withdrawn:	
Rejected:		Stricken:	
Other:			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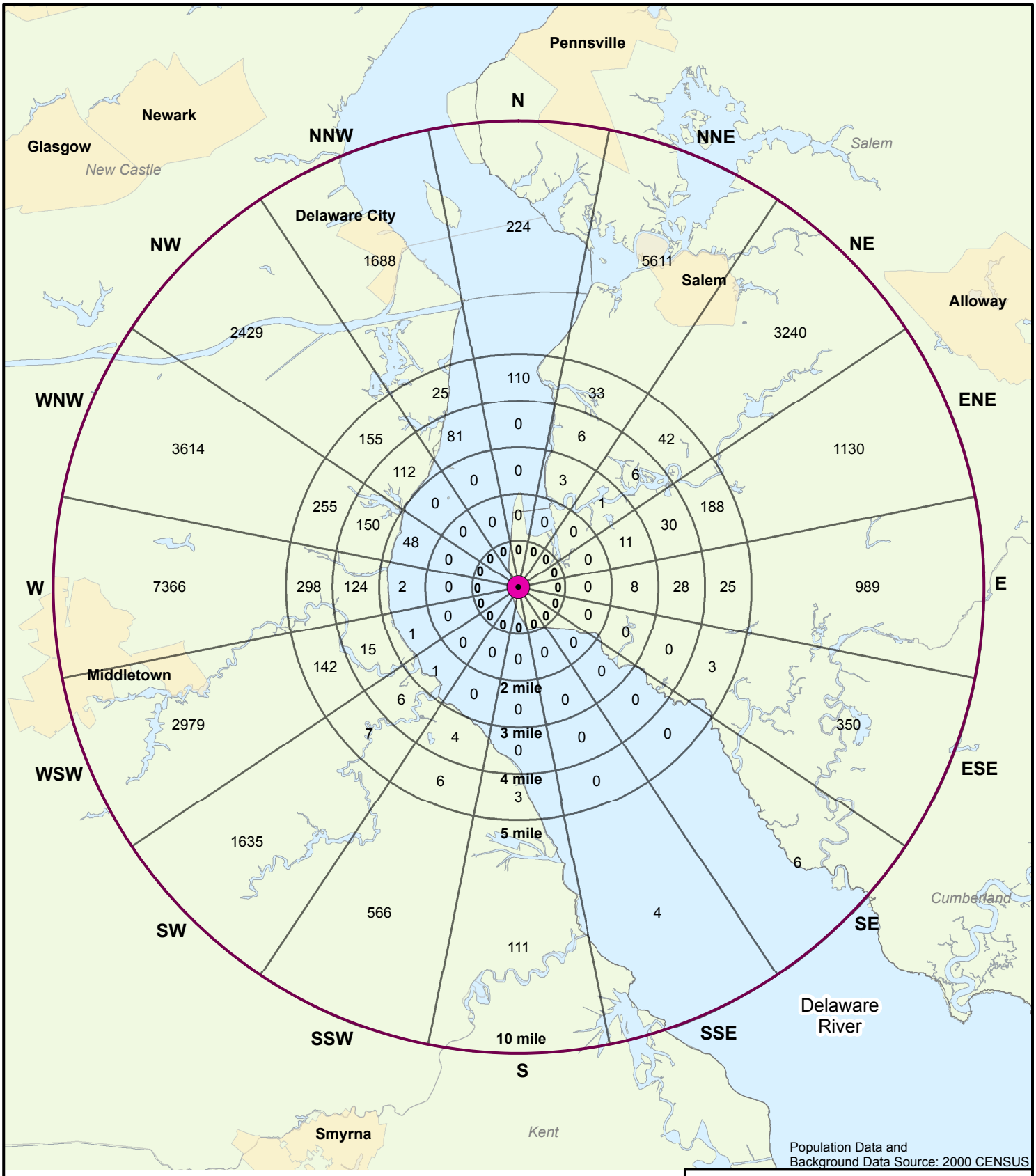
Reading
Pottstown
Hightstown
Trenton
Lancaster
Philadelphia
Camden
Wilmington
Pennsville
Salem
Aberdeen--
Havre de Grace--
Bel Air
Middletown
Vineland
Bridgeton
Atlantic City
Baltimore
Dover
Wildwood--
North Wildwood--
Cape May
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
5 Mile
10 Mile
20 Mile
30 Mile
40 Mile
50 Mile
Background Data Source: 2000 CENSUS
LEGEND
Site Location
Direction Sector
50-mile (80 km) Concentric Ring
0 10 20
Kilometers
0 10 20
Miles
PSEG Power, LLC
PSEG Site ESPA
Part 2, Site Safety Analysis Report
PSEG Site
50 Mile Region with
Direction Sectors Identified
FIGURE 2.1-2
Rev 0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Newark
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New Castle
NNW
NNE
Salem
Delaware City
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1688
5611
Salem
Alloway
2429
3240
WNW
ENE
110
25
33
0
155
81
6
42
3614
1130
112
0
0
3
6
255
150
0
0
0
1
188
48
0
0
0
0
30
11
W
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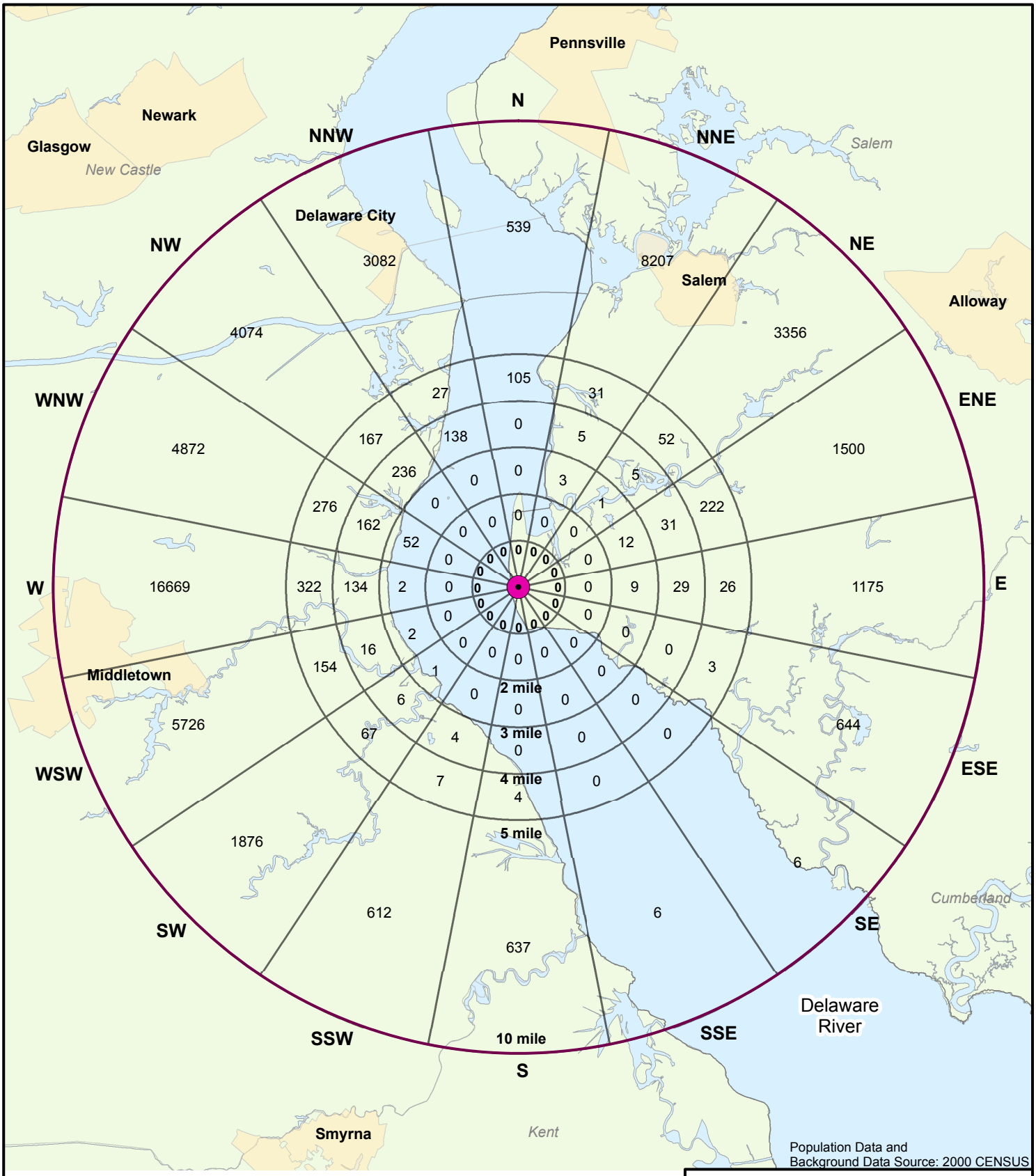
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New Castle
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NNE
Salem
Delaware City
539
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NE
3082
8207
Salem
Alloway
4074
3356
WNW
ENE
105
27
31
0
167
138
5
52
4872
1500
236
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5
276
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222
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31
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0
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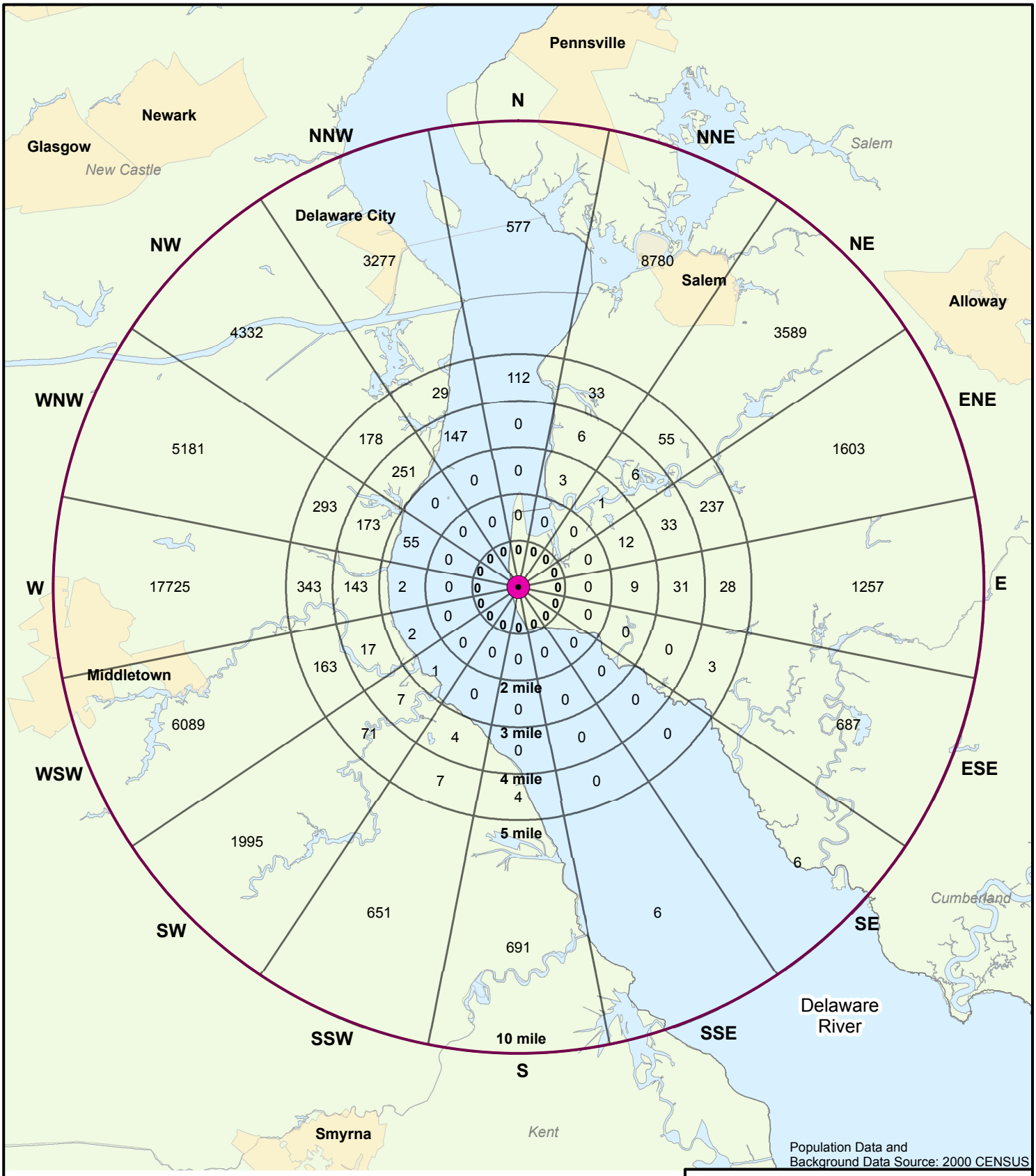
Pennsville
Newark
Glasgow
New Castle
Delaware City
Salem
Alloway
Middletown
Smyrna
Kent
Cumberland
Delaware River
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
577
8780
3589
1603
1257
687
6
6
691
651
1995
17725
6089
5181
4332
3277
112
33
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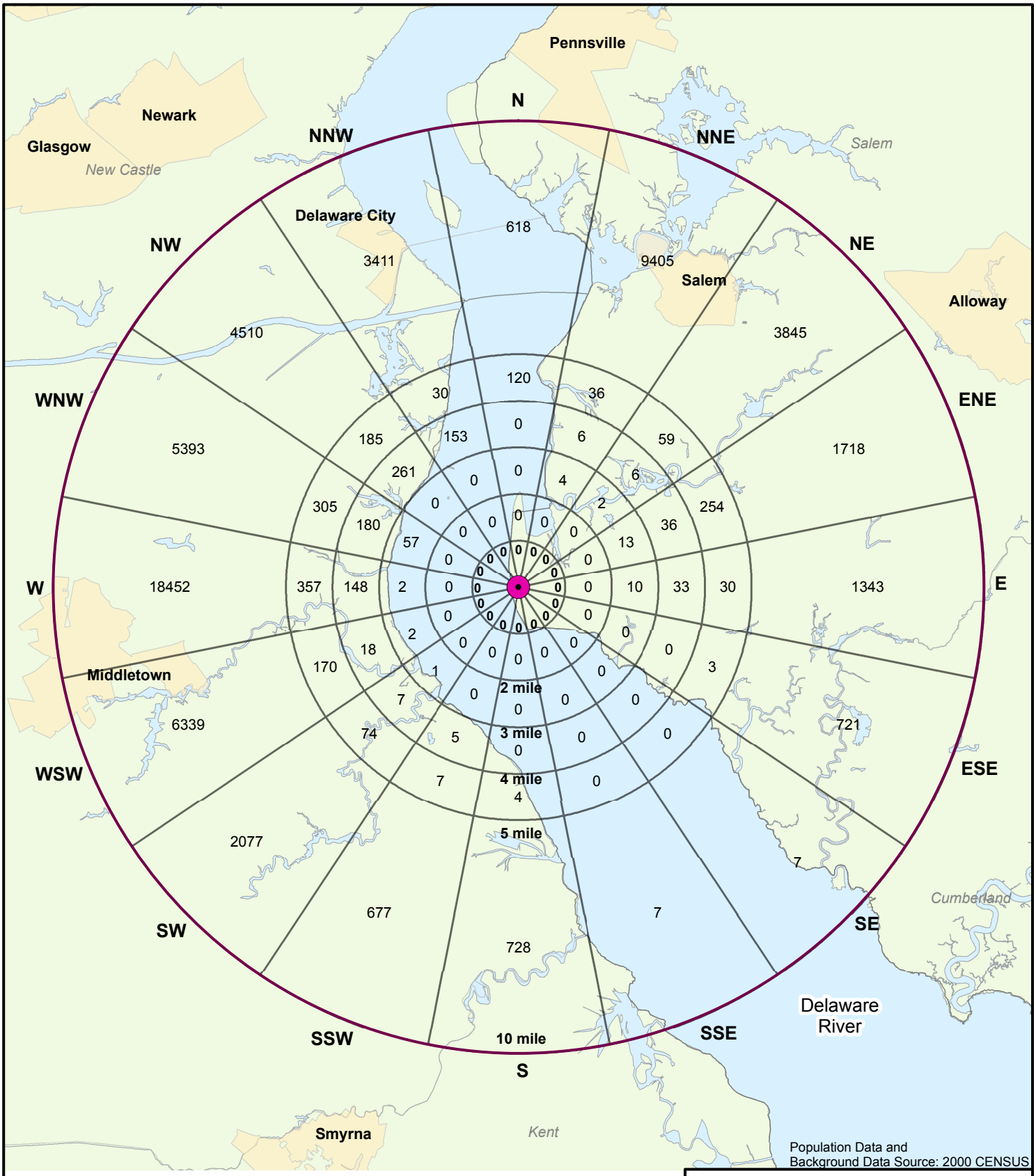
0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Delaware City
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9405
Salem
Alloway
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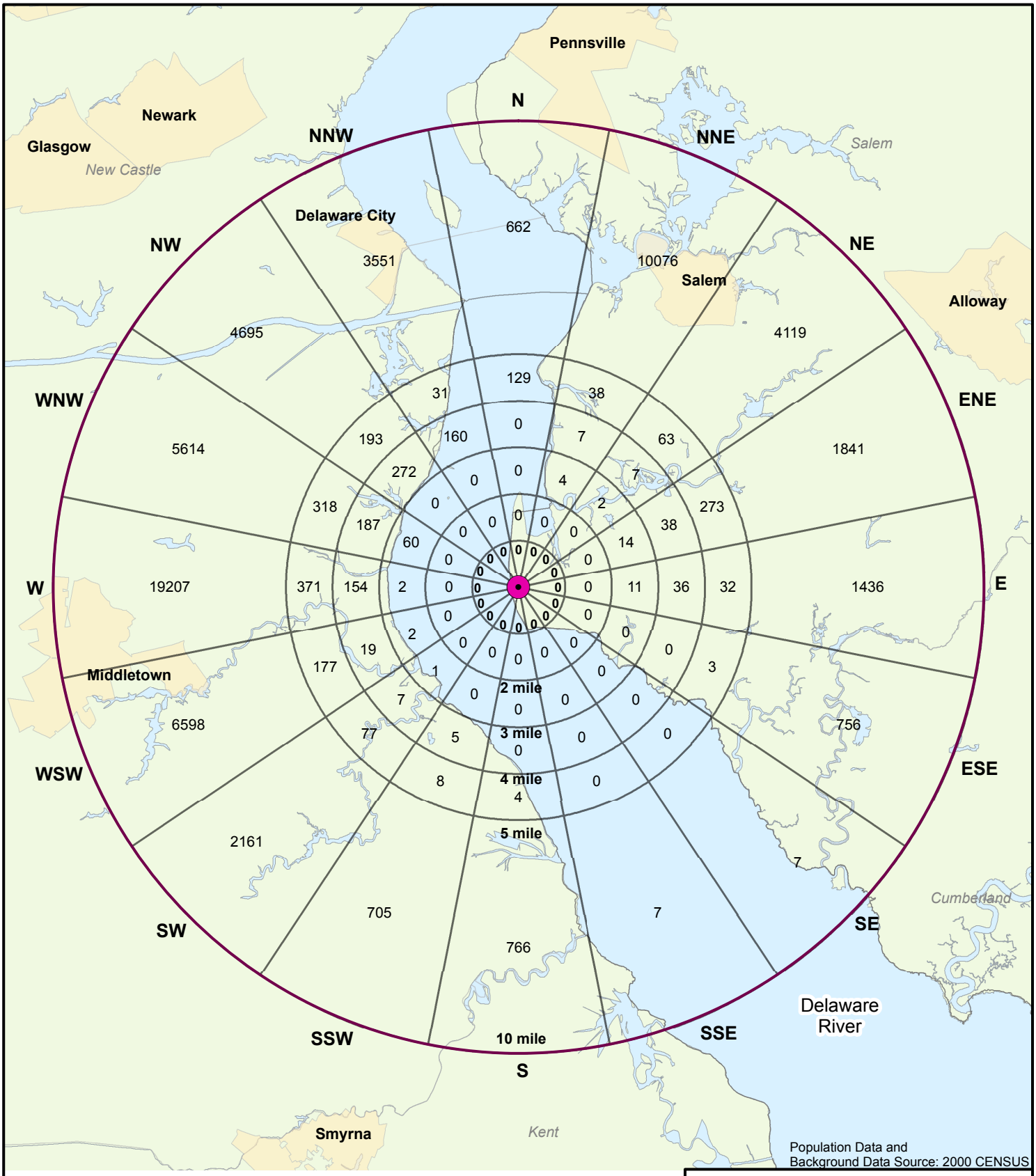
3845
WNW
ENE
120
30
36
0
185
153
6
59
5393
1718
261
0
0
4
6
305
180
0
0
0
0
2
254
57
0
0
0
0
36
13
W
18452
357
148
2
0
0
0
0
0
0
10
33
30
1343
E
0
0
0
0
0
0


Pennsville
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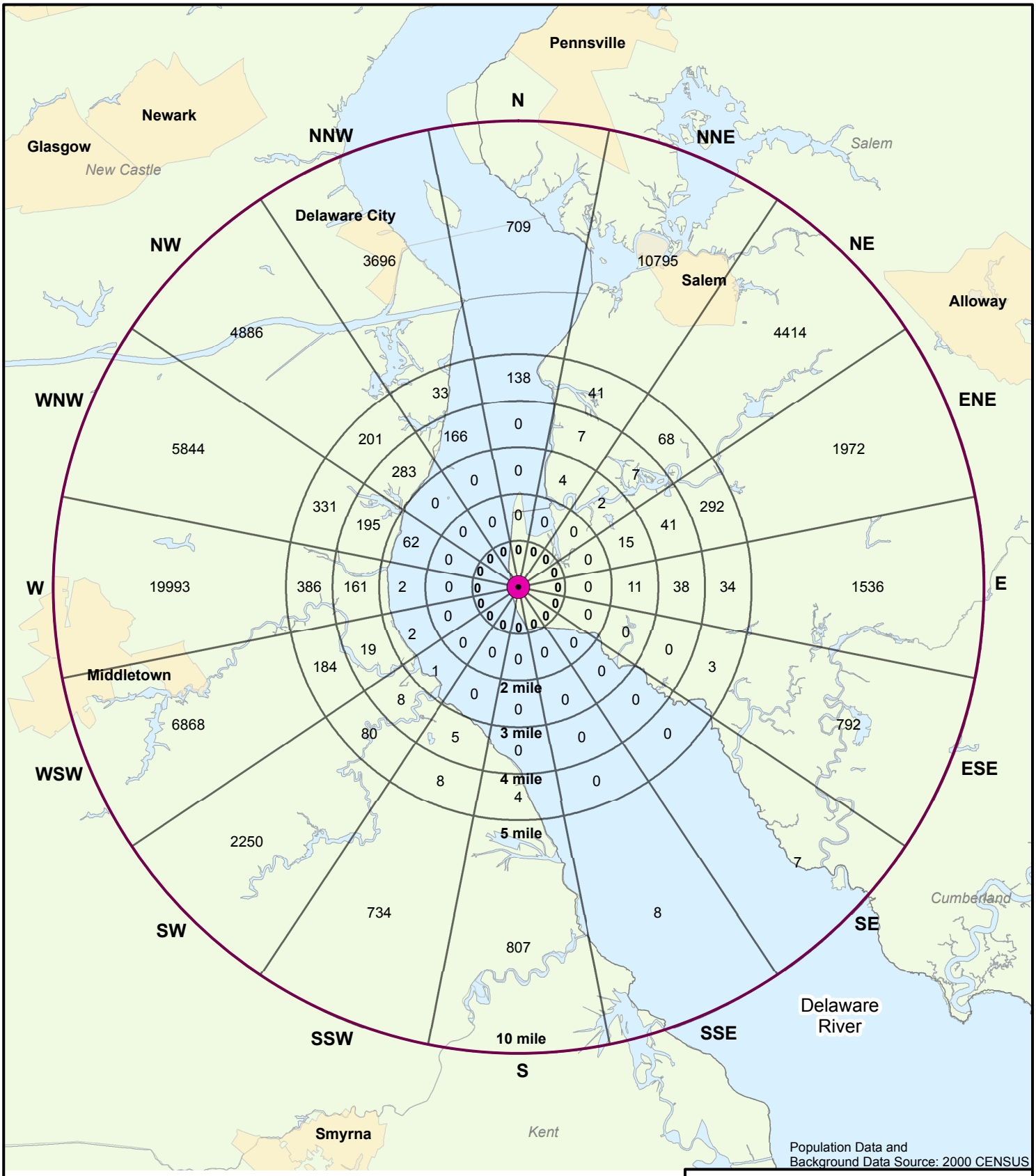
Newark
Glasgow
New Castle
NNW
NNE
Salem
Delaware City
662
NW
NE
3551
10076
Salem
Alloway
4695
4119
WNW
ENE
129
31
38
0
5614
193
160
7
63
1841
272
0
0
4
7
318
187
0
0
0
2
273
60
0
0
0
0
38
W
19207
371
154
2
0
0
0
0
0
11
36
32
1436
E
0
0
0
0
0


Pennsville
N
Newark
Glasgow
New Castle
NNW
NNE
Salem
Delaware City
NW
NE
709
3696
10795
Salem
Alloway
4886
4414
WNW
ENE
138
33
41
0
5844
201
166
7
68
1972
283
0
4
7
331
0
2
292
195
0
0
0
41
62
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0
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W
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386
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2
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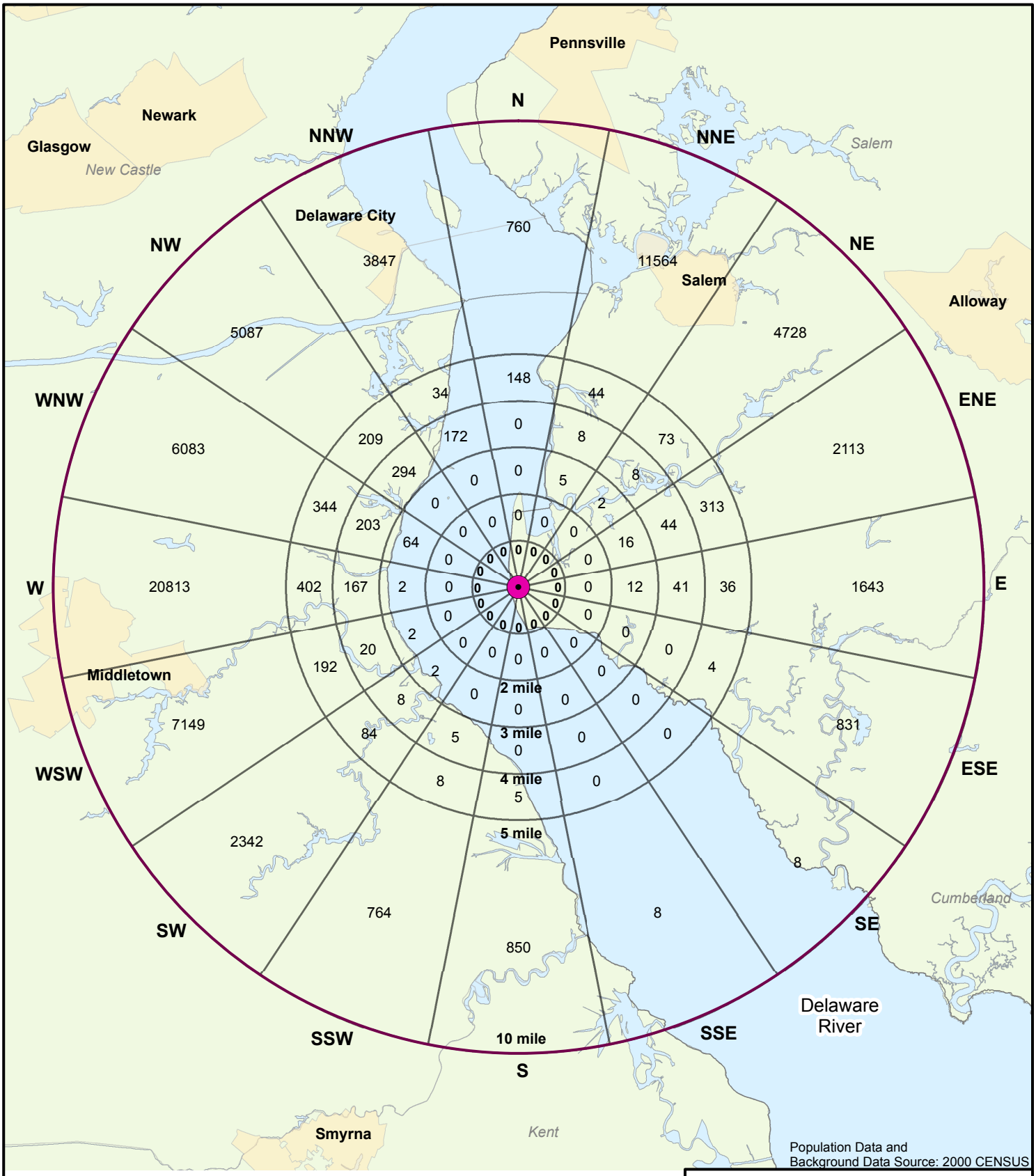
0
0
11
38
34
1536
E
0
0
0


Pennsville
N
Newark
Glasgow
New Castle
NNW
NNE
Salem
Delaware City
NW
NE
760
3847
11564
Salem
Alloway
5087
4728
WNW
ENE
148
34
44
0
209
172
8
73
6083
2113
294
0
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5
8
344
203
313
2
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44
64
16
0
0
0
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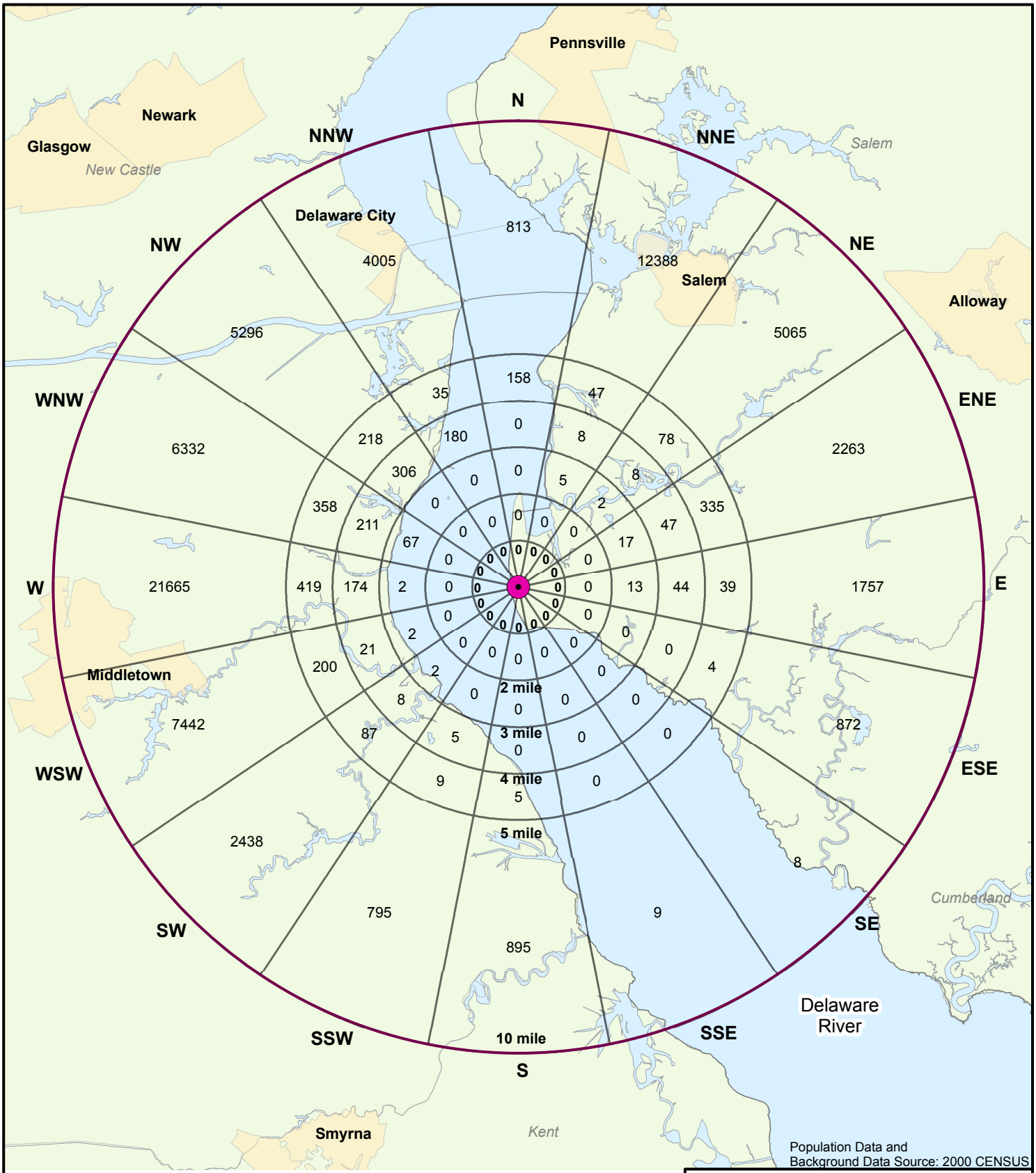


LEGEND

- Site Location
- 10-mile (16 km) Concentric Ring

N
W E
S

0 2 4
Kilometers

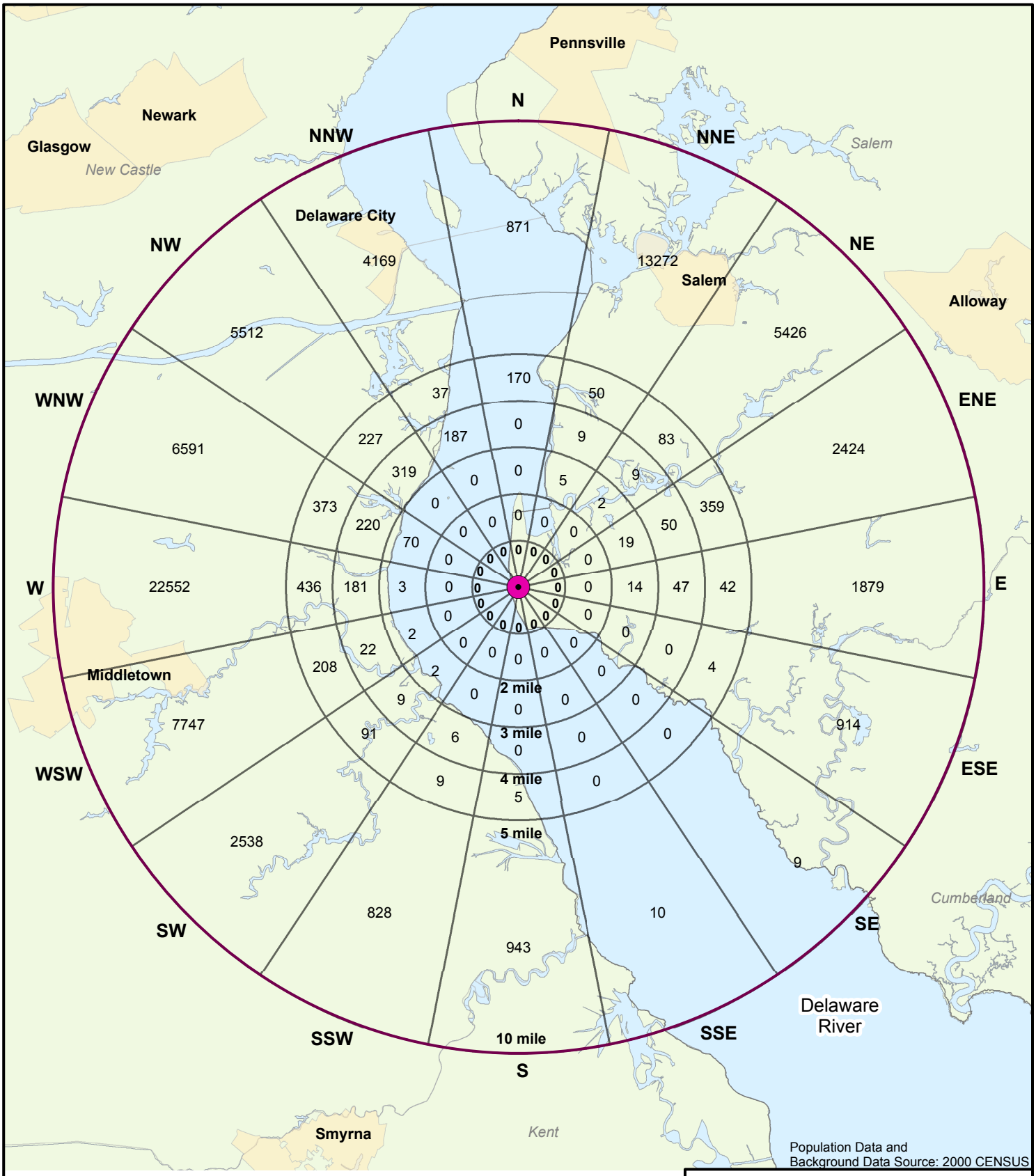
0 1 2
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 Mile Resident and Transient
Population Distribution - 2071

FIGURE 2.1-10 Rev 0


Pennsville
N
Newark
Glasgow
New Castle
NNW
NNE
Salem
Delaware City
871
NW
NE
4169
13272
Salem
Alloway
5512
5426
WNW
ENE
170
37
50
0
6591
227
187
9
83
2424
319
0
0
5
9
373
220
2
359
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0
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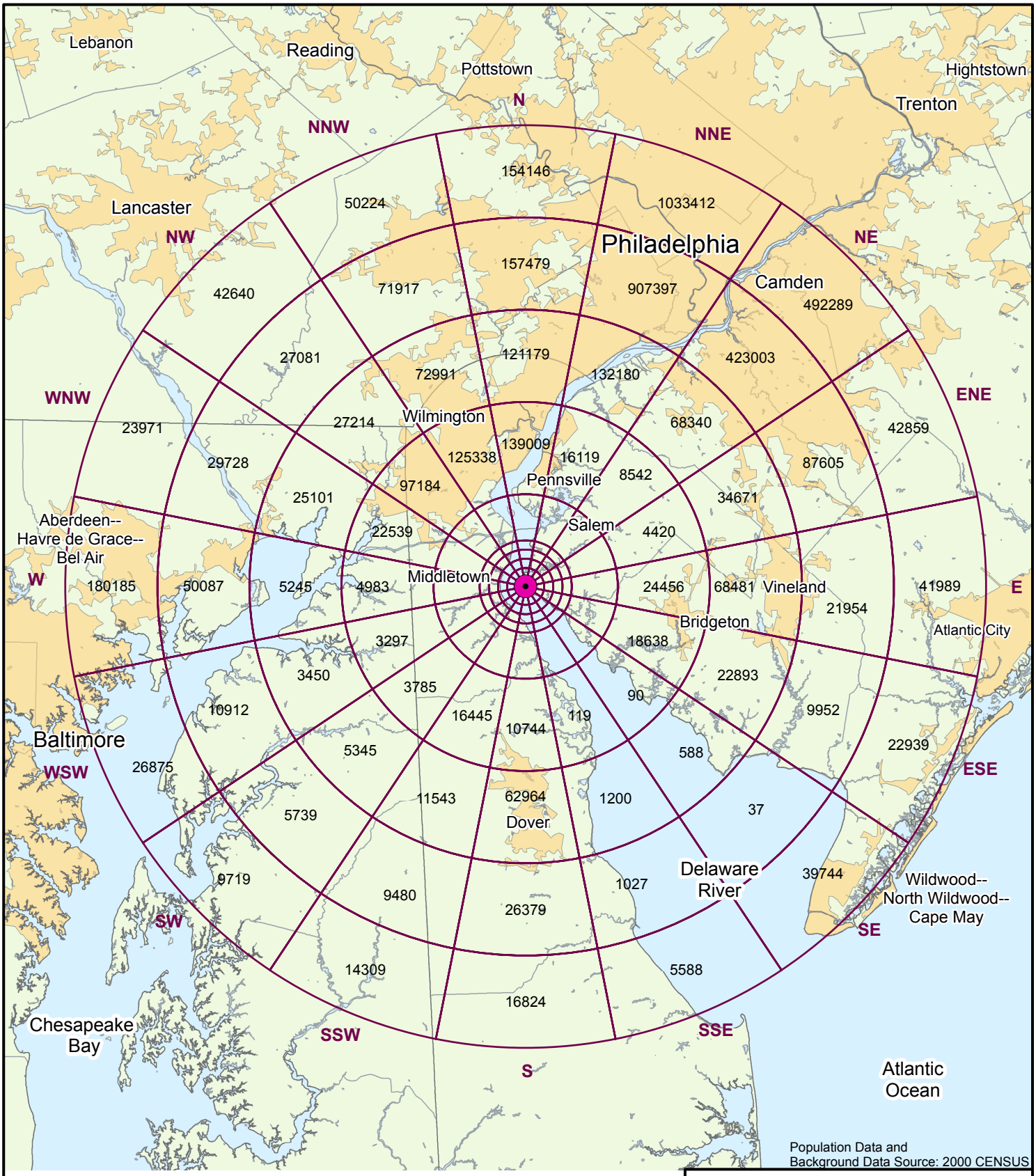
0
50
70
19
0
0
0
0
0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

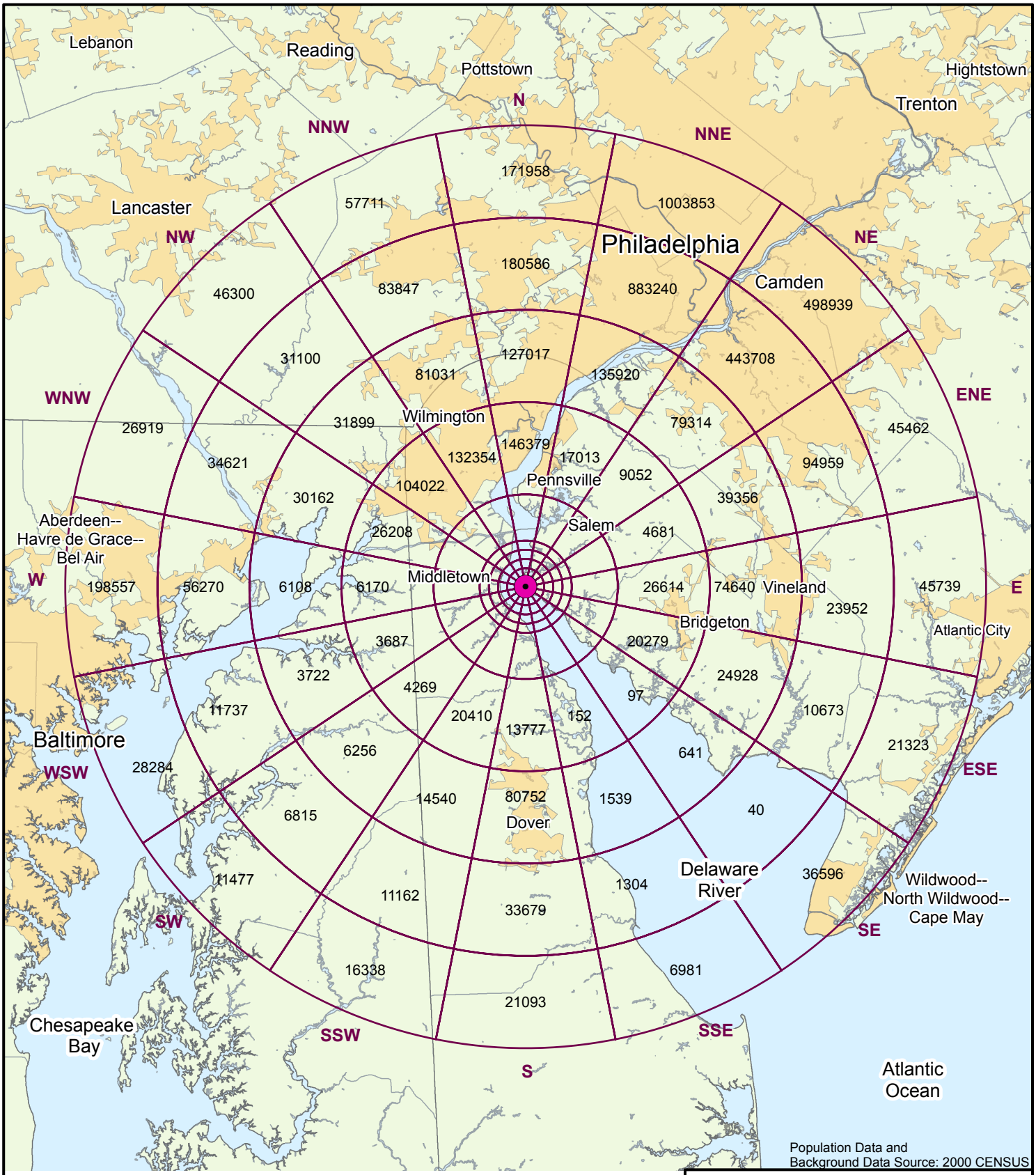
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2000
Resident Population Distribution

FIGURE 2.1-12 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

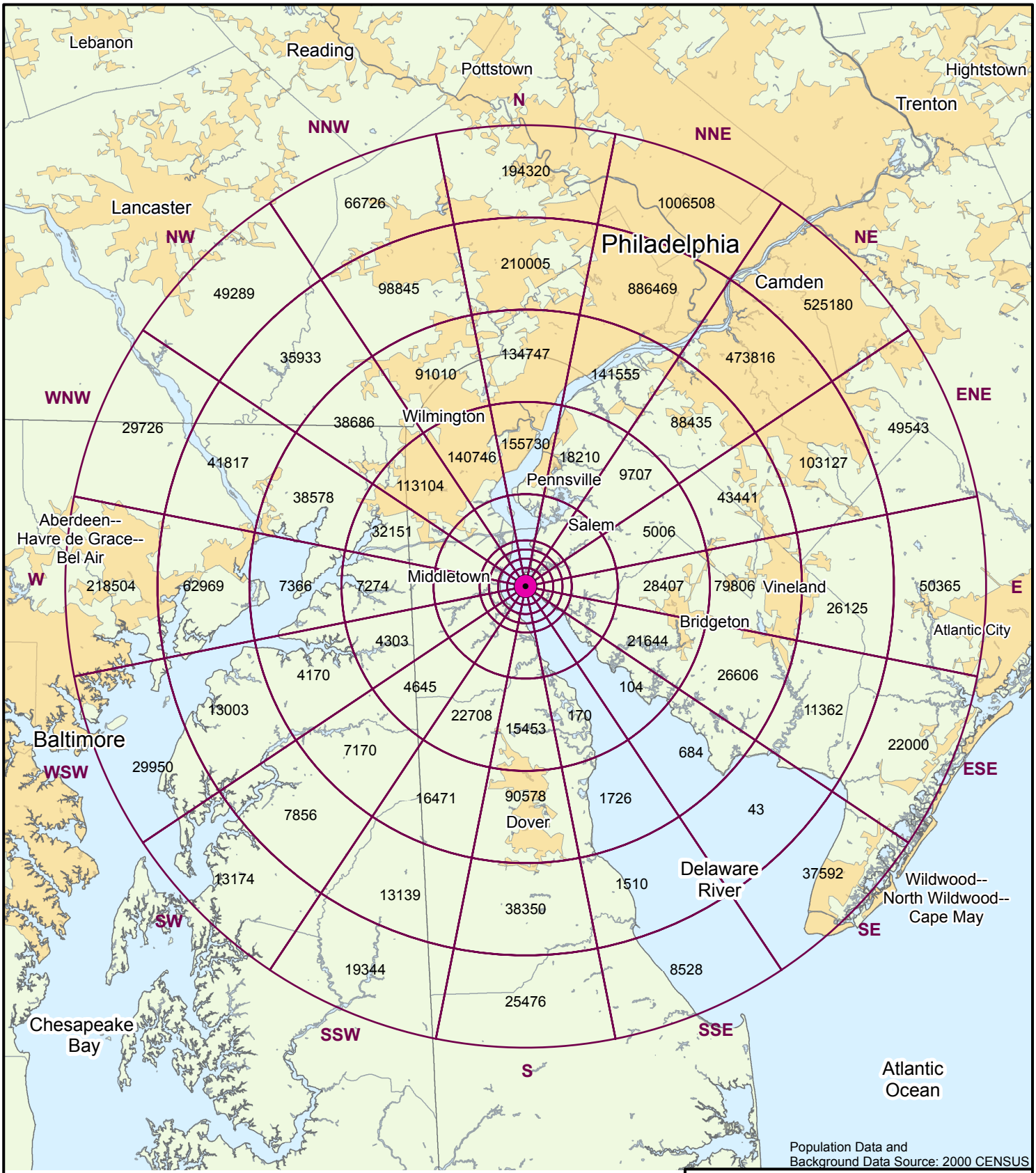
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2010
Resident Population Distribution

FIGURE 2.1-13 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

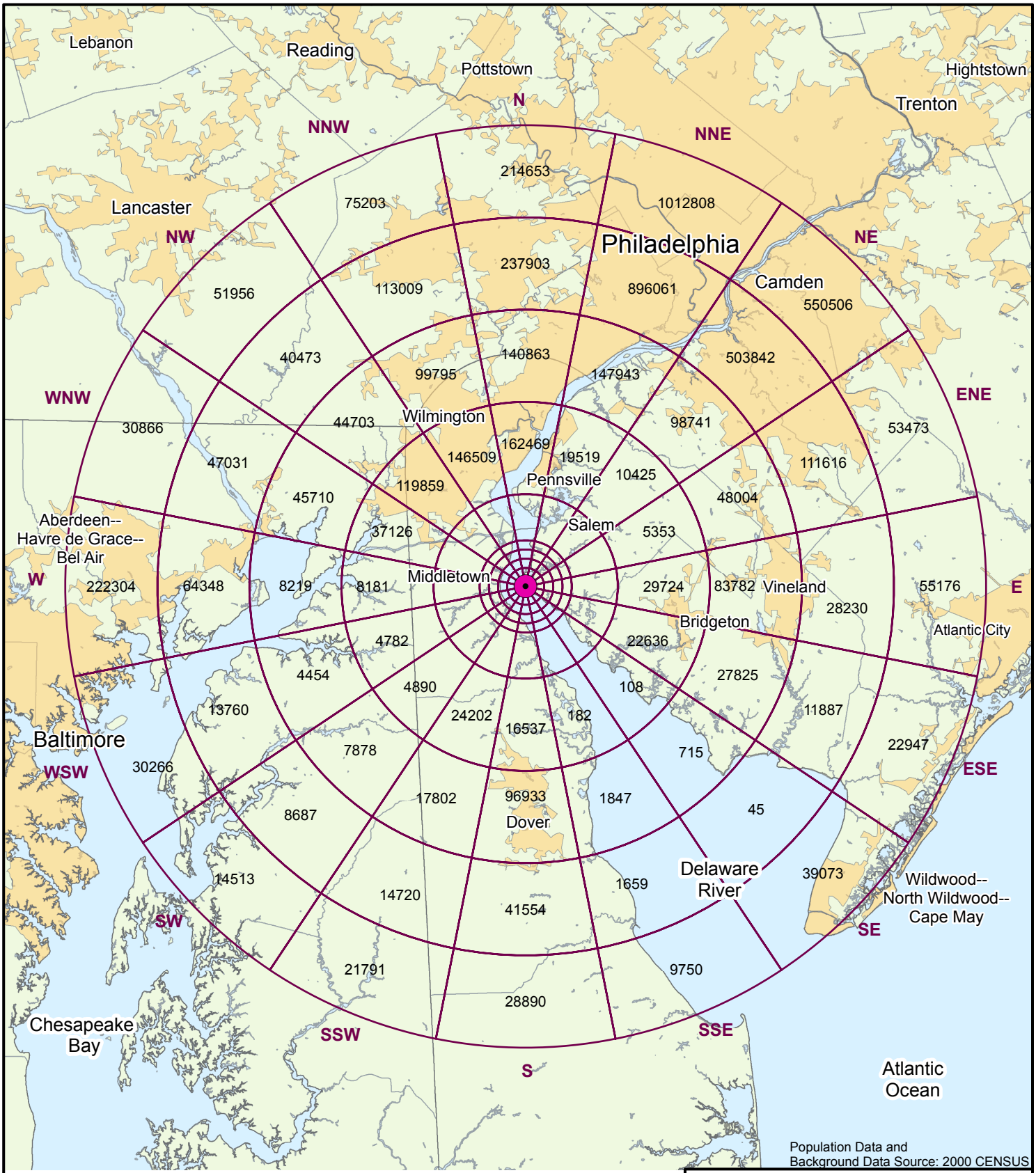
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2021
Resident Population Distribution

FIGURE 2.1-14 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

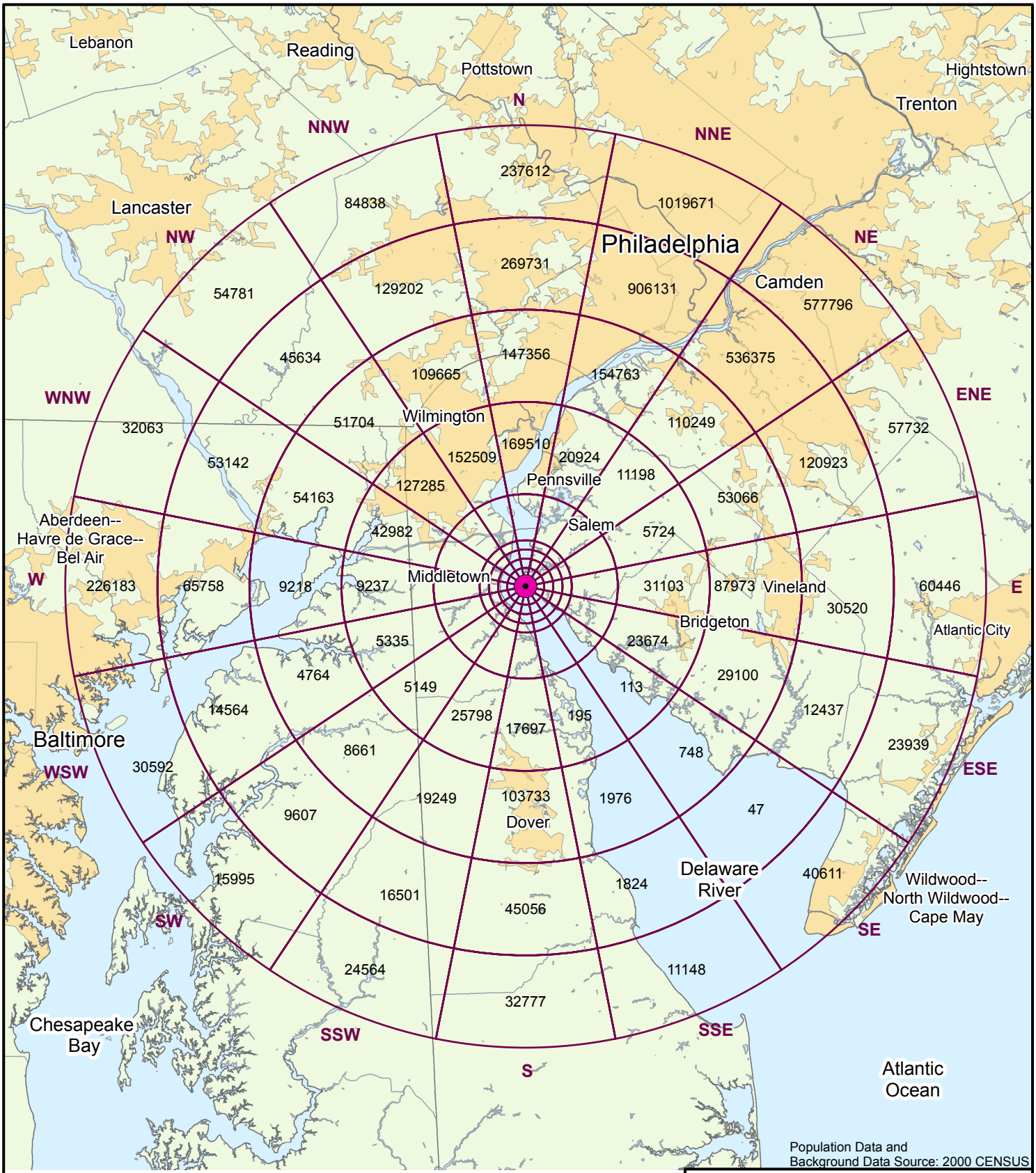
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2031
Resident Population Distribution

FIGURE 2.1-15 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

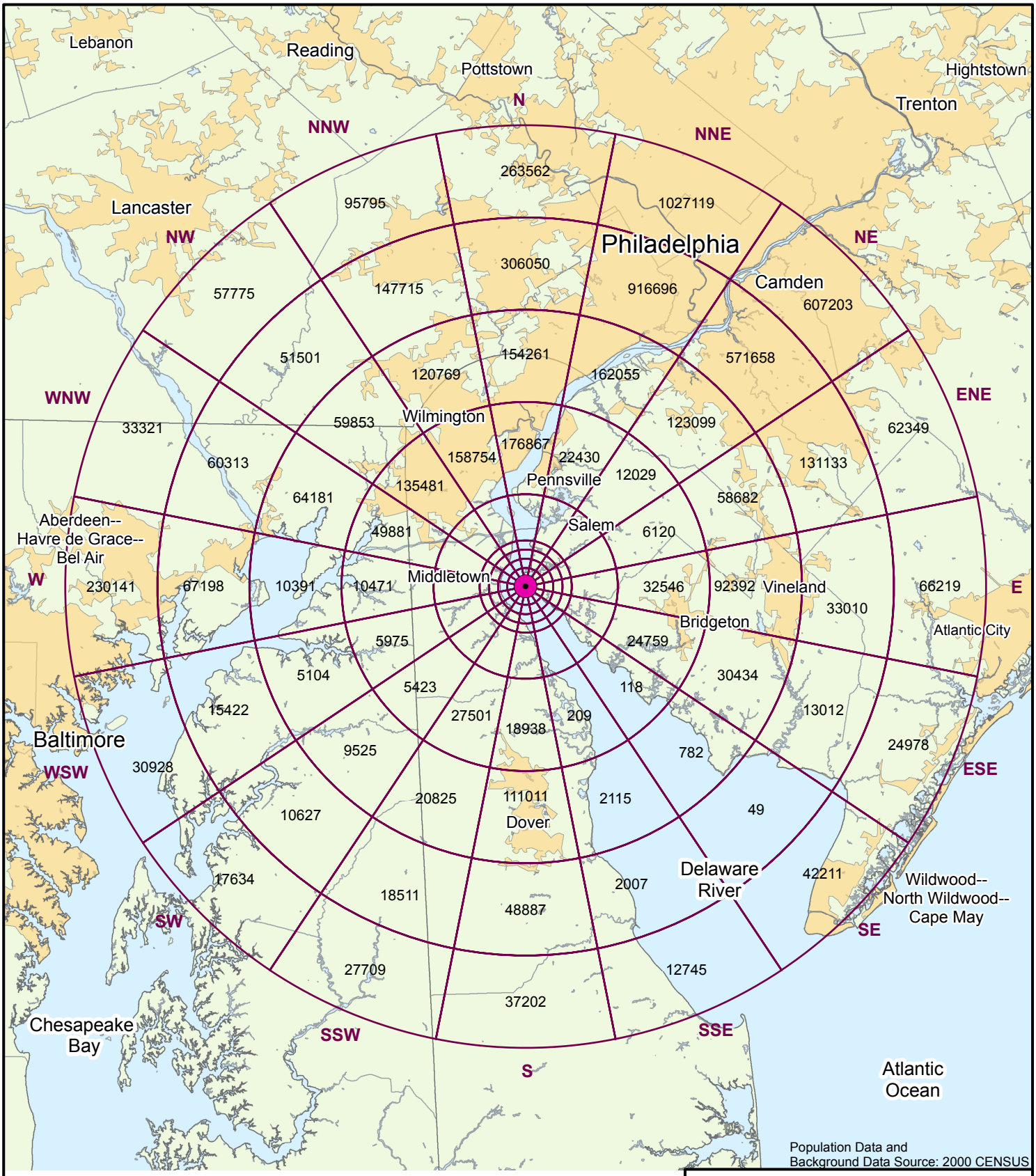
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2041
Resident Population Distribution

FIGURE 2.1-16 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

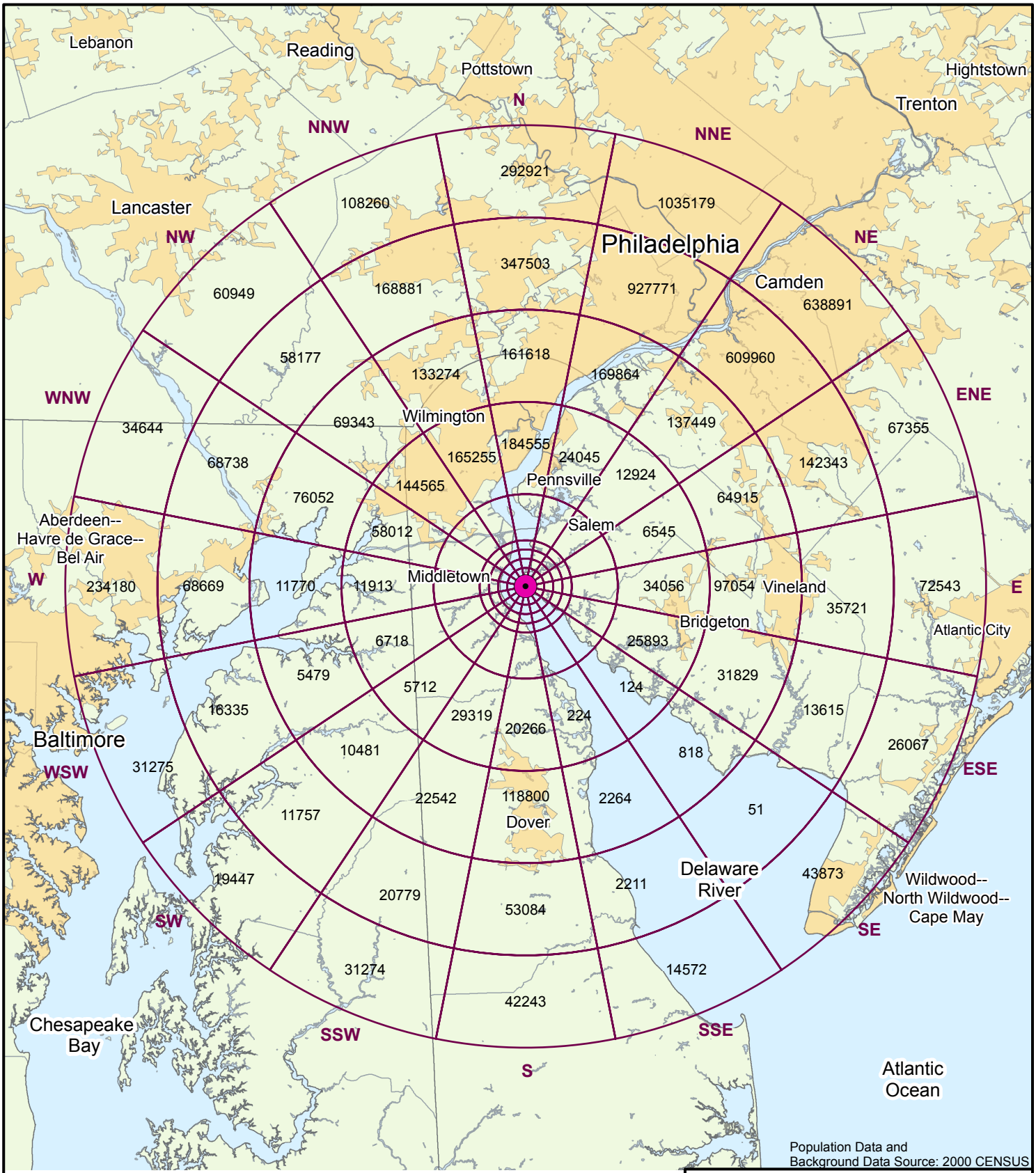
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2051
Resident Population Distribution

FIGURE 2.1-17 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

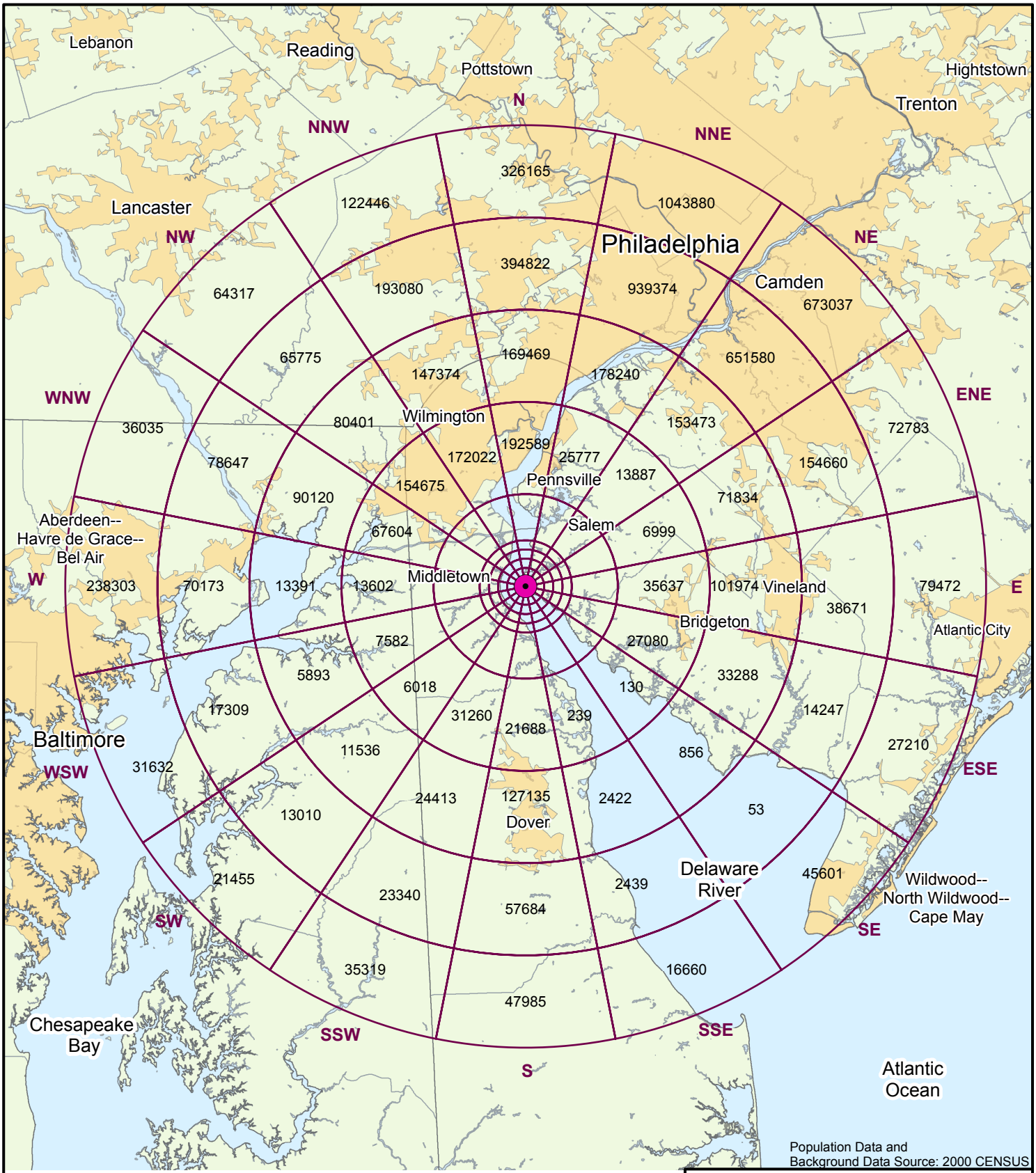
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2061
Resident Population Distribution

FIGURE 2.1-18 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

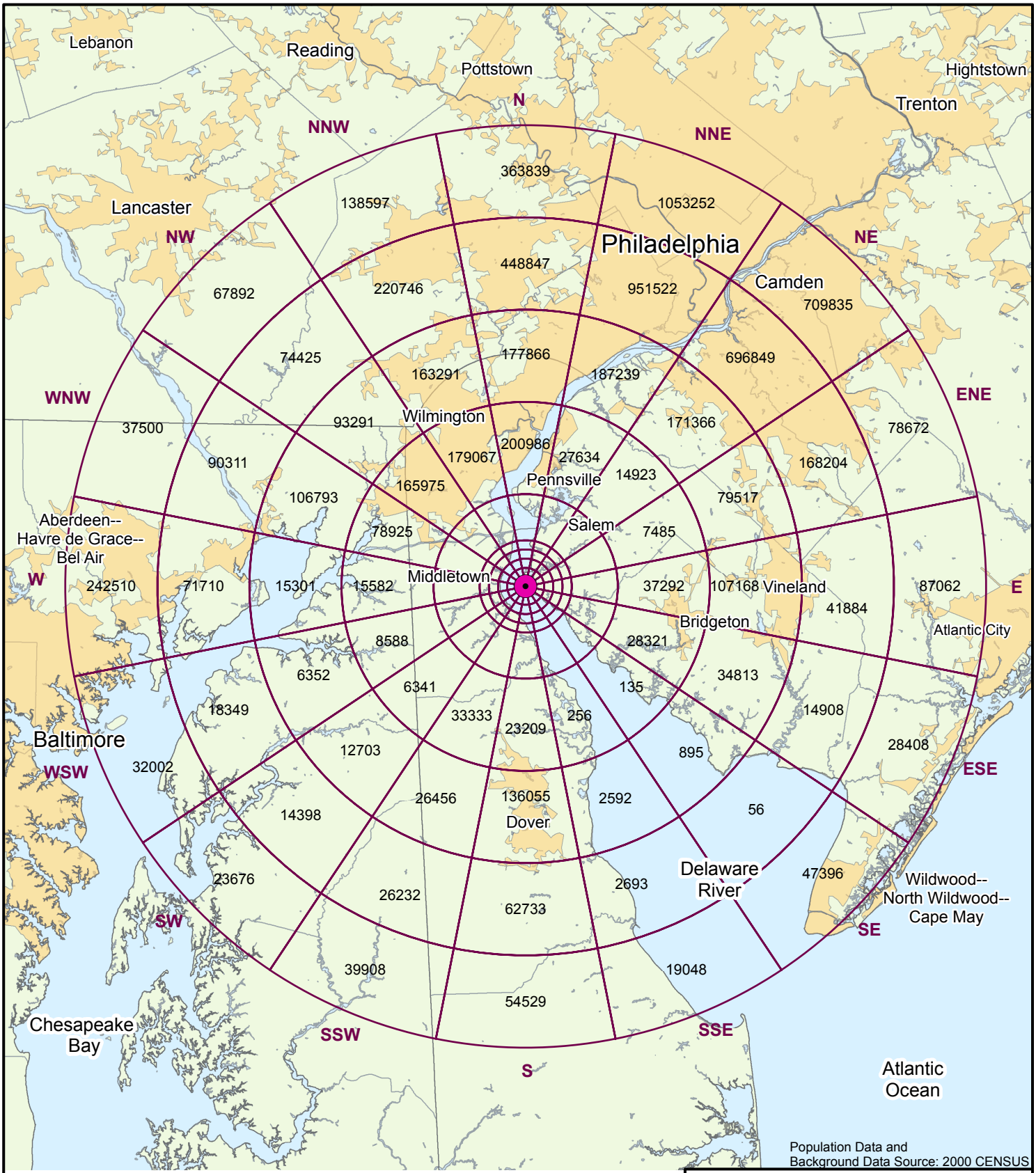
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2071
Resident Population Distribution

FIGURE 2.1-19 Rev 0



LEGEND

- Site Location
- 50-mile (80 km) Concentric Ring

N
W E
S

0 10 20
Kilometers

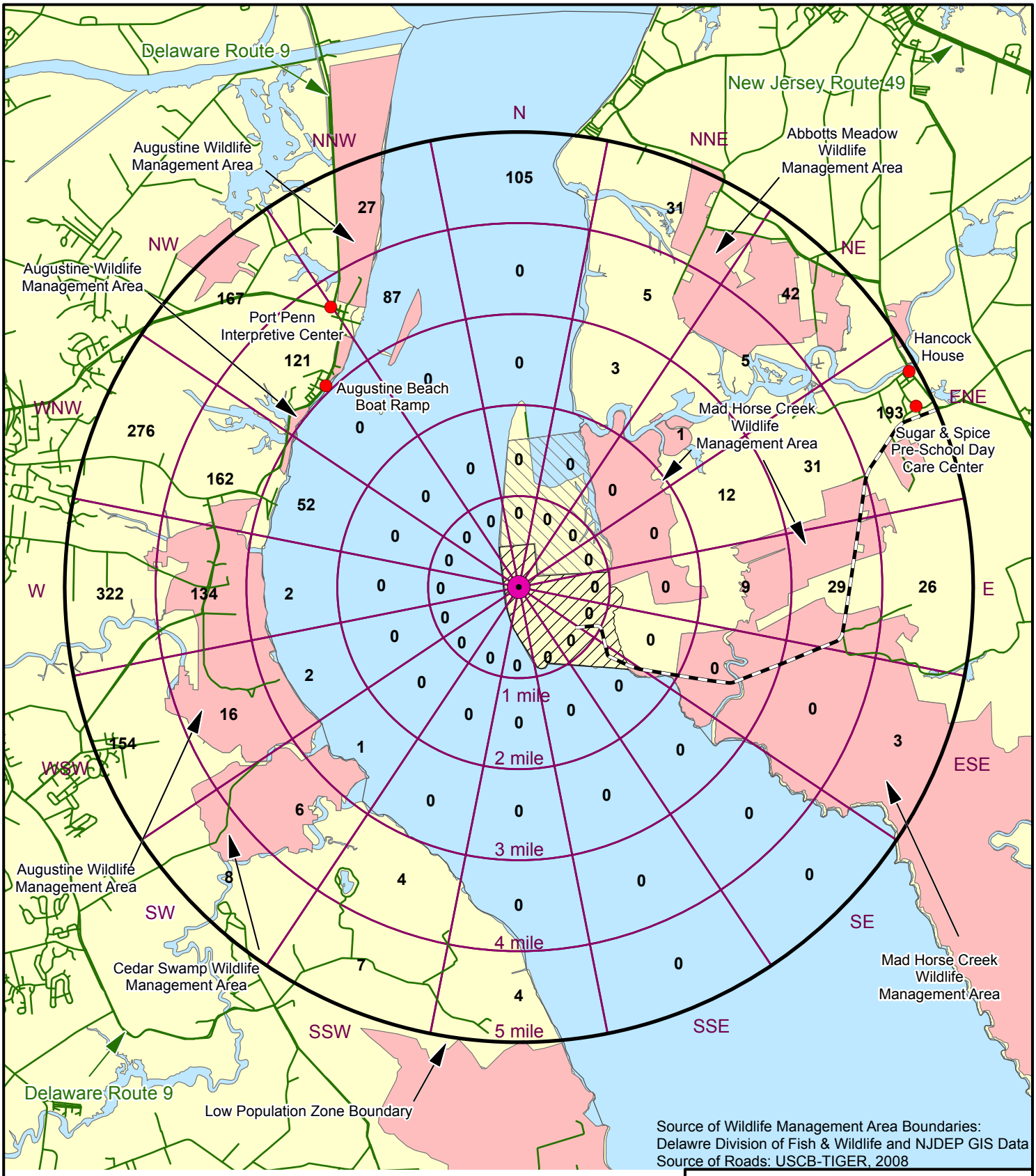
0 5 10
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
10 to 50-Mile 2081
Resident Population Distribution

FIGURE 2.1-20 Rev 0



LEGEND

- Site Location
- Low Population Zone Boundary
- Public Road
- Plant Access Road
- Site Boundary
- USA Corps of Engineers Land
- State Wildlife Management Areas
- Facility or Institution Location

N
W E
S

0 1 2
Kilometers

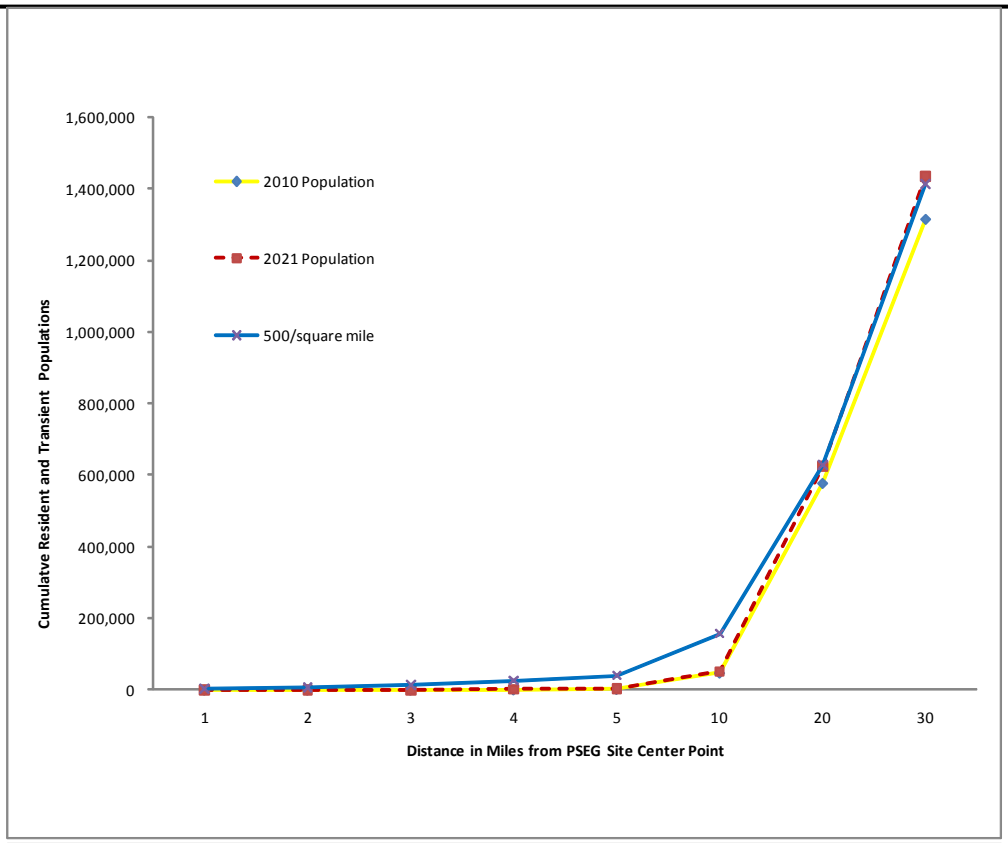
0 1 2
Miles

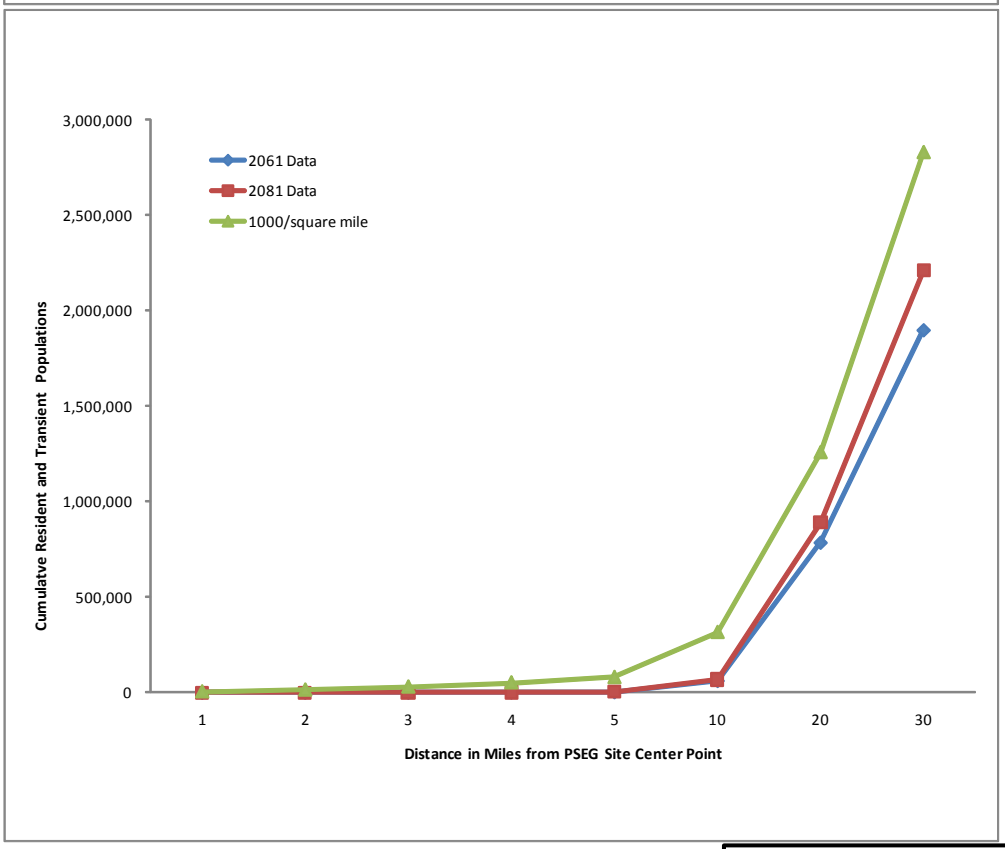
PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

PSEG Site
2010 Resident Population
Within the Low Population Zone

FIGURE 2.1-21 Rev 1



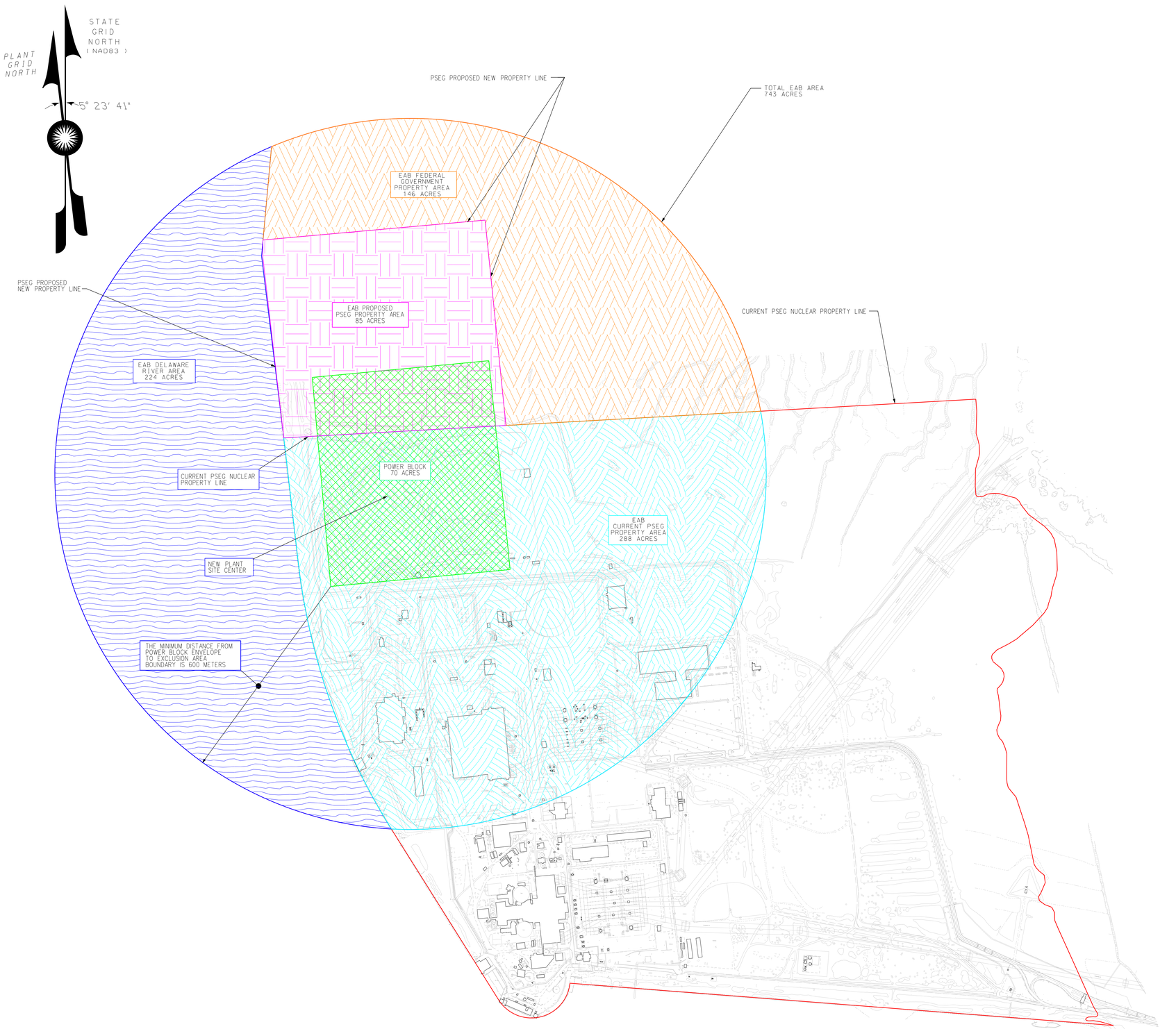


PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

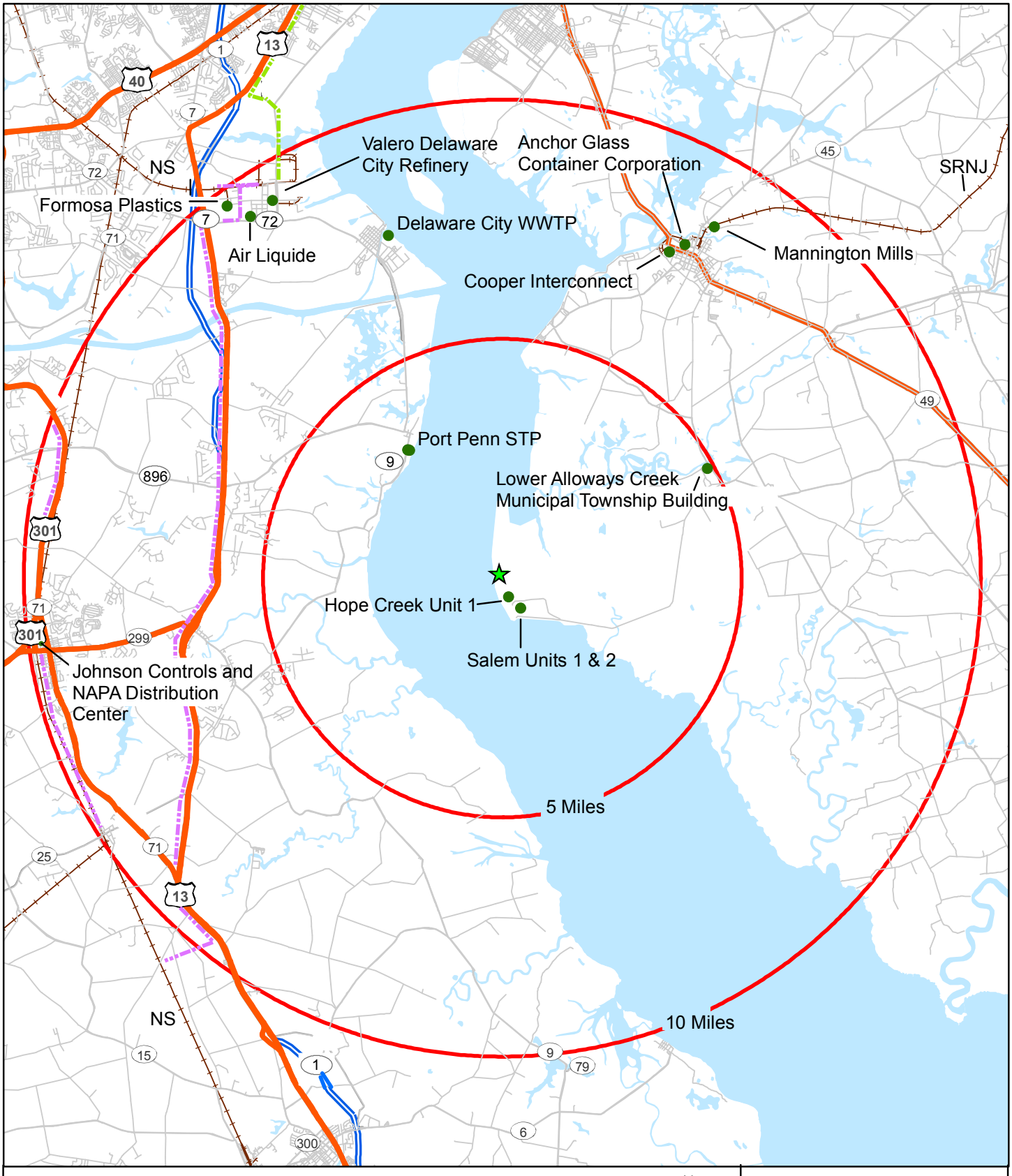
PSEG Site
Cumulative Population within
30 Miles Compared
to NRC Siting Criteria

FIGURE 2.1-22 Rev 0



PSEG Power, LLC
PSEG Site ESPA
Part 2, Safety Analysis Report

Exclusion Area Boundary
FIGURE 2.1-23
Rev.0

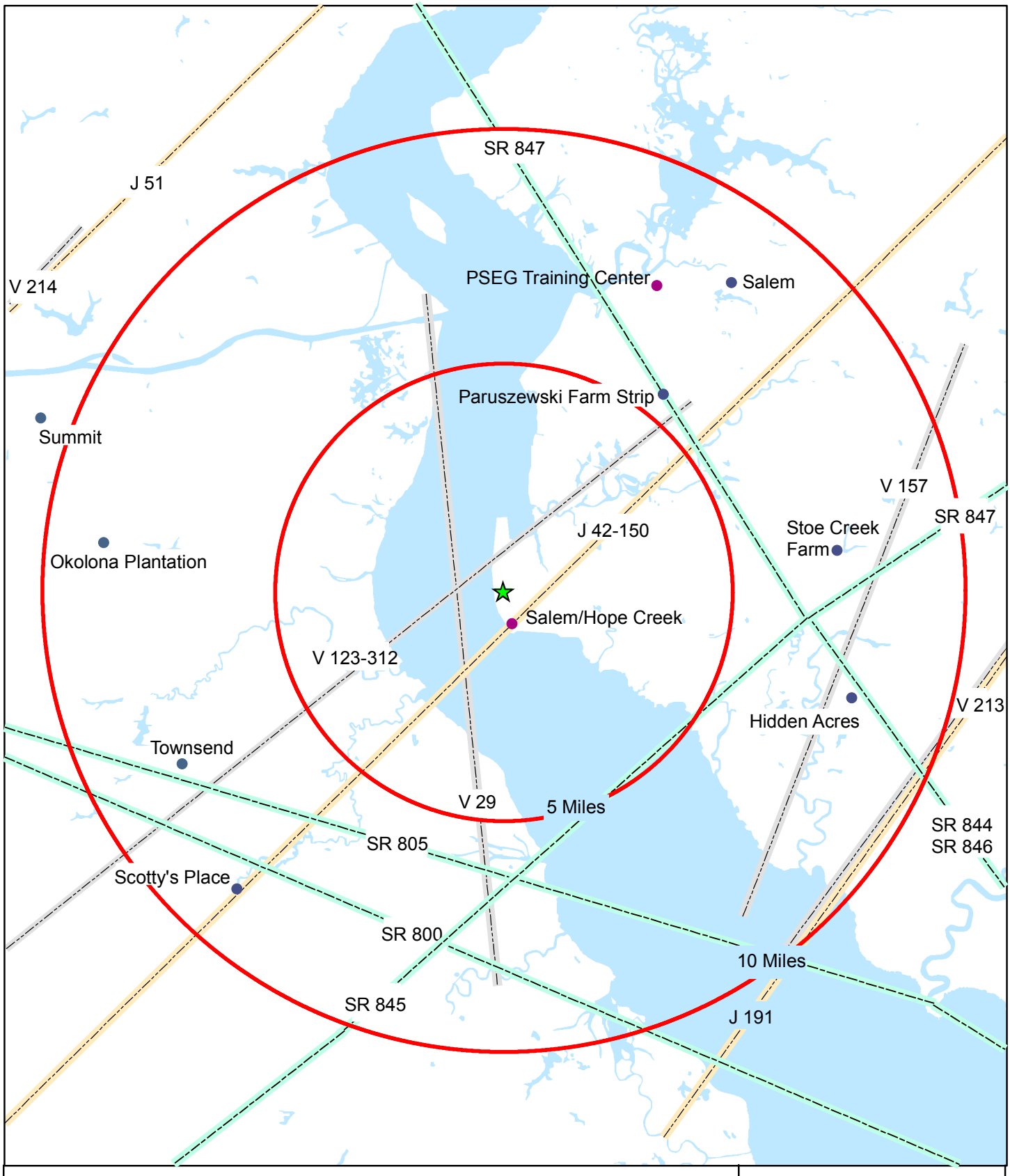


PSEG Power, LLC

PSEG Site ESPA
Part 2, Safety Analysis Report

Industrial and Transporation Facilities within 10 Miles of the PSEG Site

FIGURE 2.2-1 Rev 1



LEGEND

- Helipad
- Airport
- Jet Route
- PSEG New Plant Location
- Federal Airway
- Military Training Route

0 2.5 5 Kilometers

0 2 4 Miles

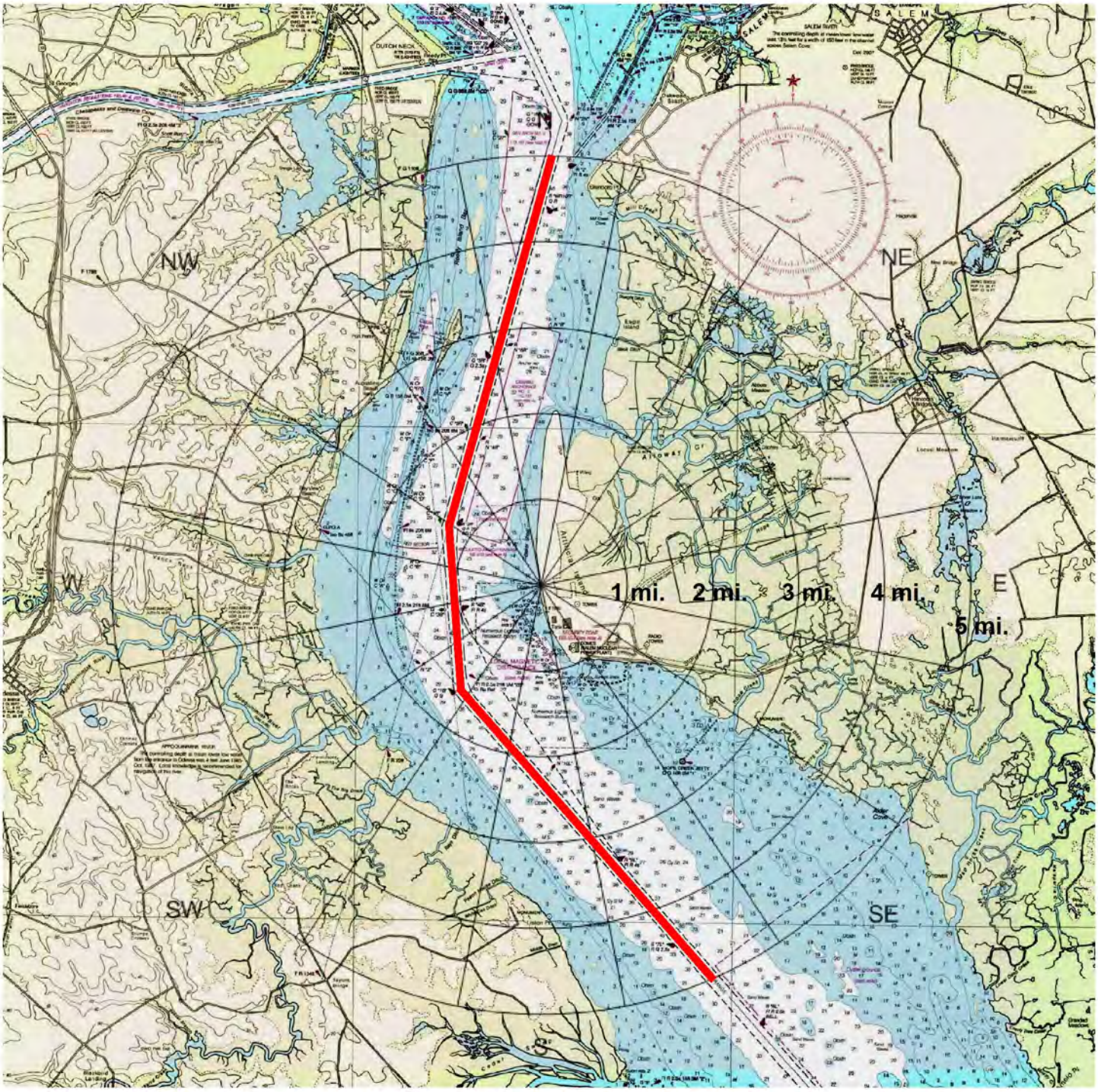
References 2.2-12, 2.2-14, 2.2-21

PSEG Power, LLC

PSEG Site ESPA
Part 2, Safety Analysis Report

Airports and Airways within 10 Miles of the PSEG Site

FIGURE 2.2-2 Rev 1



N
W E
S

0 1 2
Miles

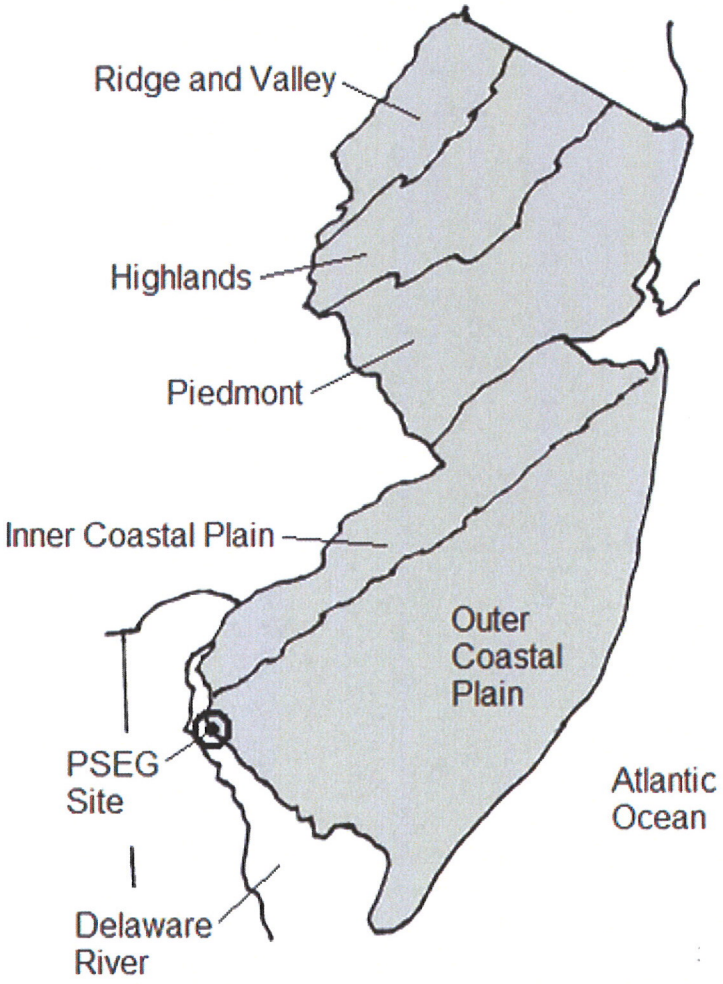
PSEG Power, LLC

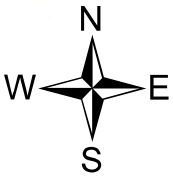
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Vessel Route near the PSEG Site
Showing the Distance and Wind Direction

FIGURE 2.2-3

Rev 0





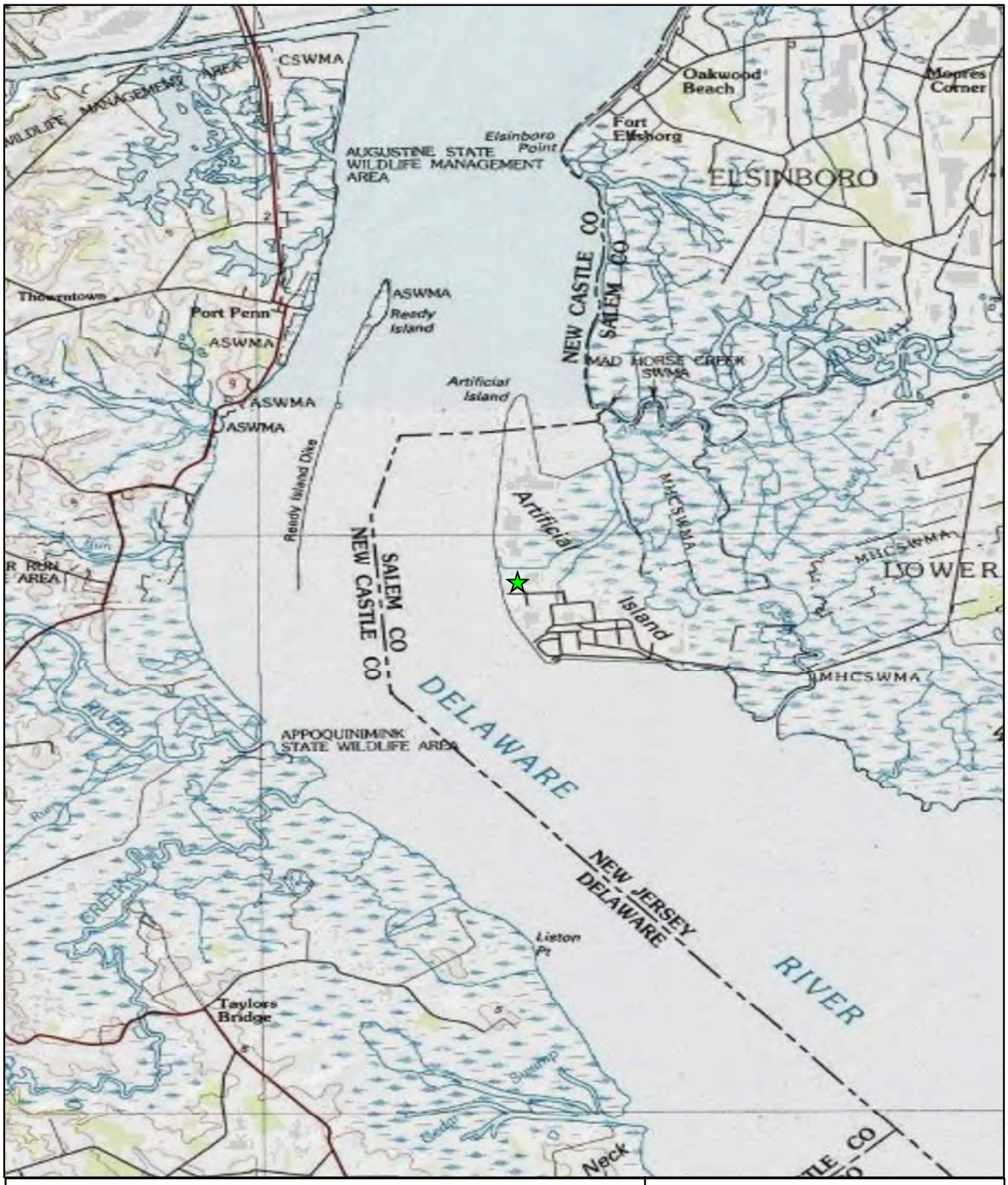
PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

New Jersey Landform Areas

FIGURE 2.3-1

Rev 0



Legend

- Marsh
- Forest
- PSEG Site
- Clear
- Urban

N
W E
S

0 0.5 1 2 3
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Local Topographic Map
FIGURE 2.3-2
Rev. 0

Legend

- Marsh
- Forest
- PSEG Site
- Clear
- Urban

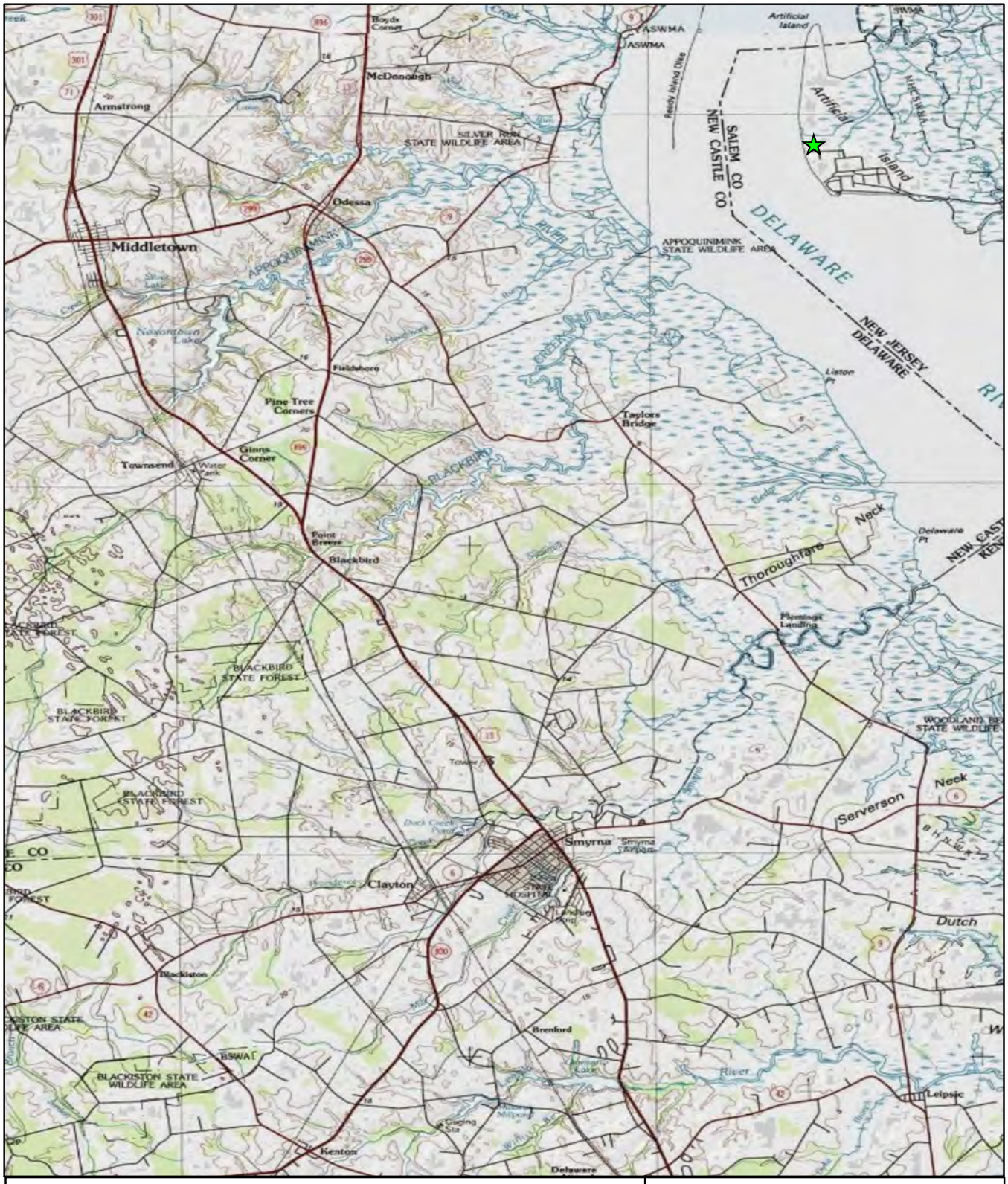
N
W E
S

0 0.5 1 2 3
Miles

PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Regional Topographic Map
FIGURE 2.3-3
(Sheet 1 of 4 NW View) Rev. 0



Legend

- Marsh
- Forest
- PSEG Site
- Clear
- Urban

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Regional Topographic Map
FIGURE 2.3-3
(Sheet 2 of 4 SW View)

Rev. 0

Legend

- Marsh
- Forest
- PSEG Site
- Clear
- Urban

N
W E
S

0 0.5 1 2 3
Miles

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PSEG Site ESPA
Part 2, Site Safety Analysis Report

Regional Topographic Map
FIGURE 2.3-3
(Sheet 3 of 4 NE View)
Rev. 0

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Part 2, Site Safety Analysis Report

Regional Topographic Map
FIGURE 2.3-3
(Sheet 4 of 4 SE View)

Rev. 0

North
Central
Southwest
Pine Barrens
Coastal

N
W E
S

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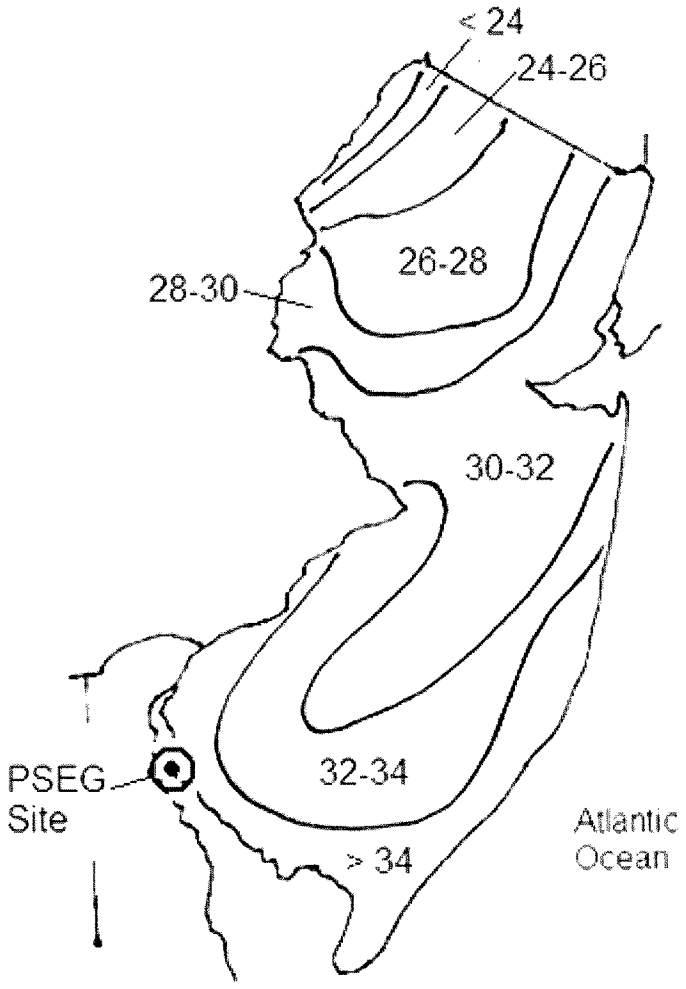
New Jersey Climate Zones

FIGURE 2.3-4

Rev 0



0 10 20 30 40
Miles

Temperatures
shown in degrees
Fahrenheit

N
W E
S

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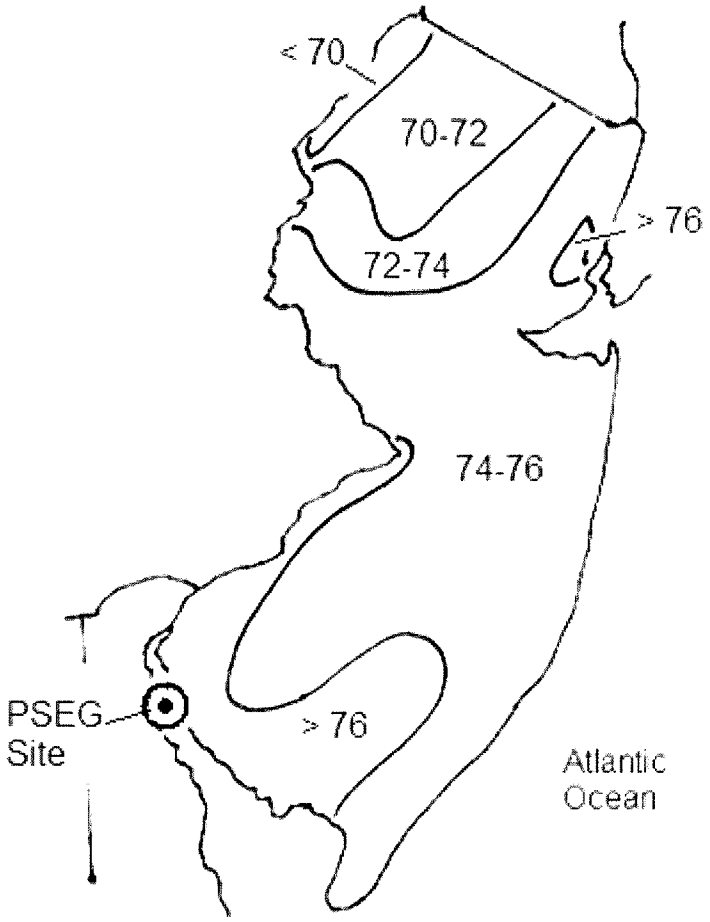
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Pattern of New Jersey Average
January Dry Bulb Temperature

FIGURE 2.3-5

Rev 0



0 10 20 30 40

Miles

Temperatures shown in degrees Fahrenheit

N
W E
S

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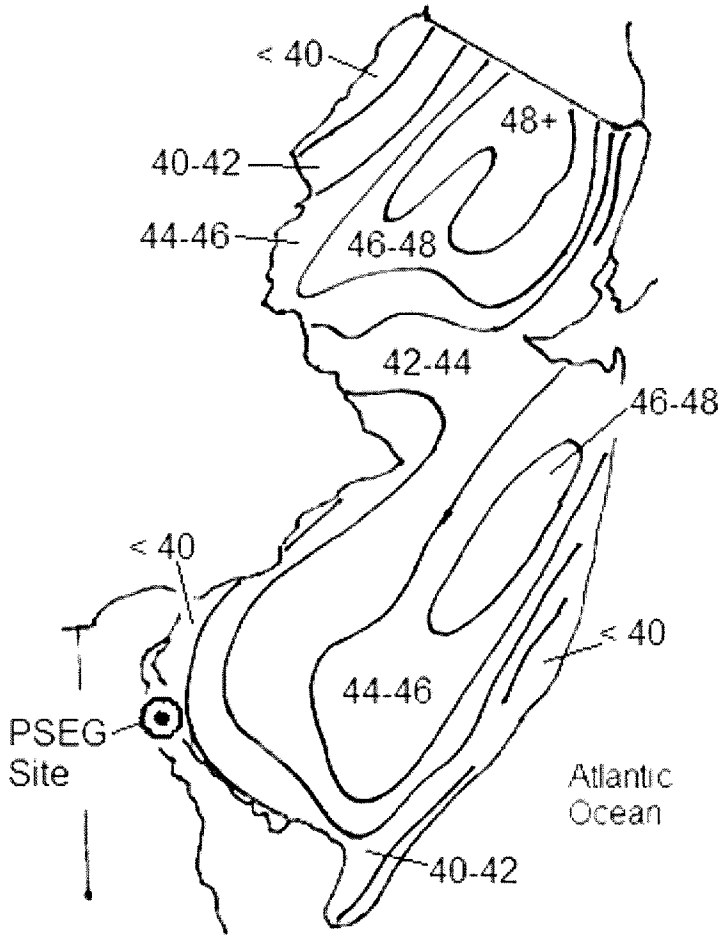
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Pattern of New Jersey Average July Dry Bulb Temperature

FIGURE 2.3-6

Rev 0



0 10 20 30 40

Miles

Precipitation shown
in inches

N
W E
S

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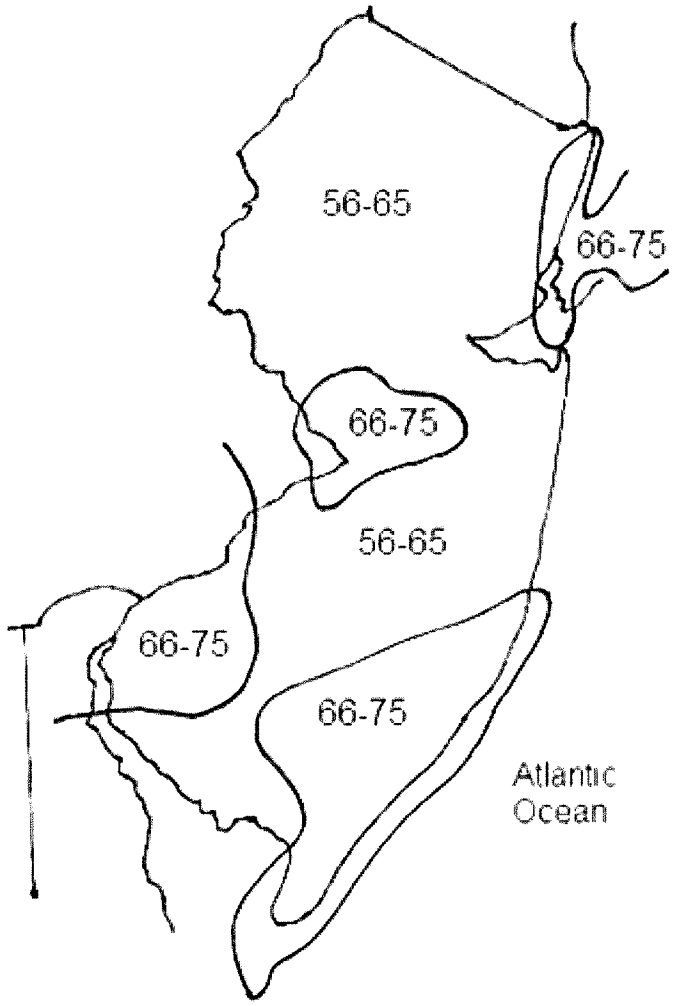
Part 2, Site Safety Analysis Report

Pattern of New Jersey Average
Annual Water Equivalent Precipitation

FIGURE 2.3-7

Rev 0



0 10 20 30 40

Miles

Relative Humidity
shown in percent

N
W E
S

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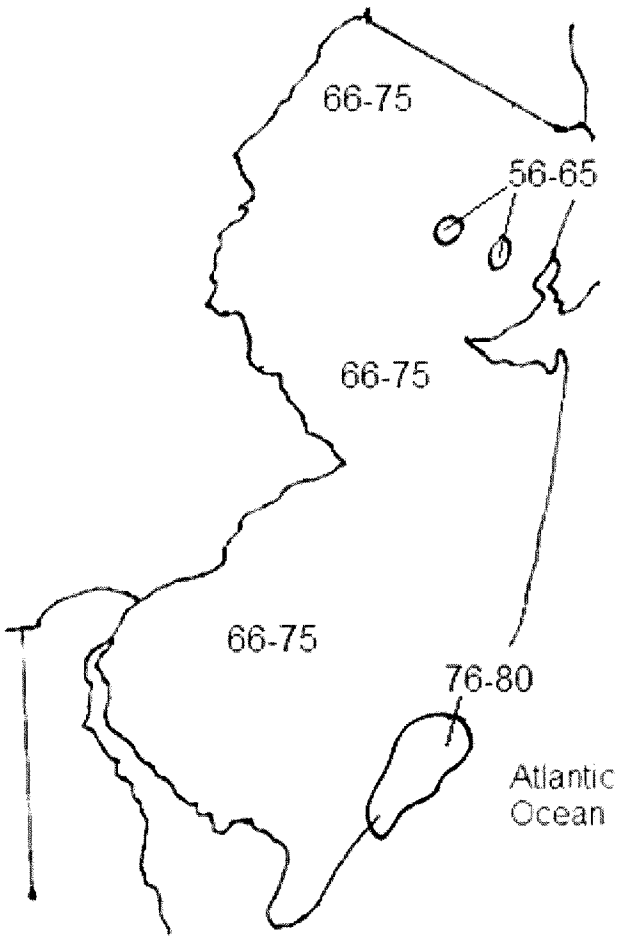
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Pattern of New Jersey Average
January Relative Humidity

FIGURE 2.3-8

Rev 0



0 10 20 30 40

Miles

Relative Humidity
shown in percent

N
W E
S

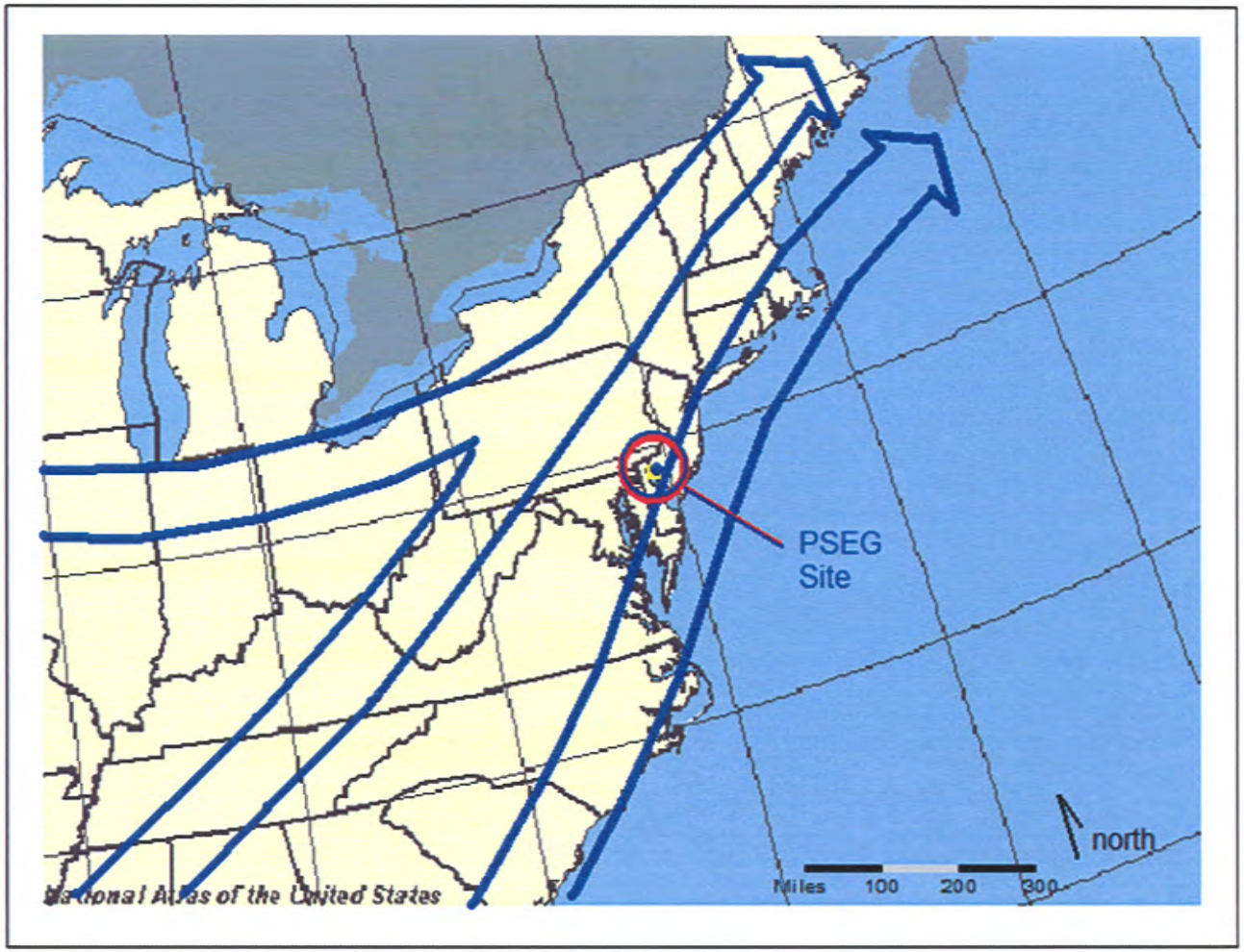
PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Pattern of New Jersey Average
July Relative Humidity

FIGURE 2.3-9

Rev 0



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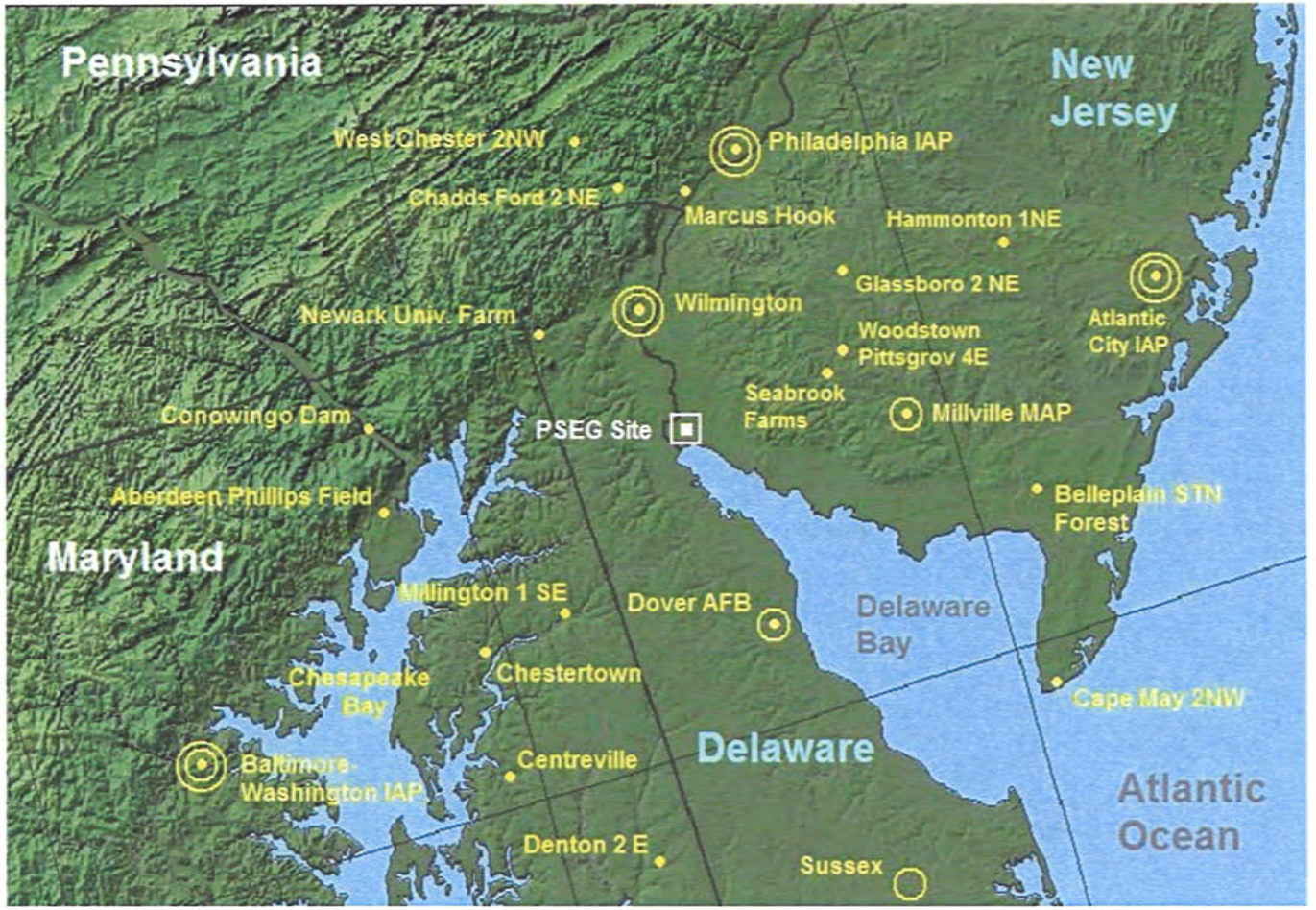
Typical Tracks of Low-Pressure Storm Systems
Across the Northeastern United States

FIGURE 2.3-10 Rev 0



- COOP Station, Typically with Clim-20 Summary Available
- ASOS Station with Hourly Data Available
- LCD Station with Long Term Climate Summary and Long Term Dry/Wet Bulb Frequency Table Available.

0 10 20 30 40

Miles

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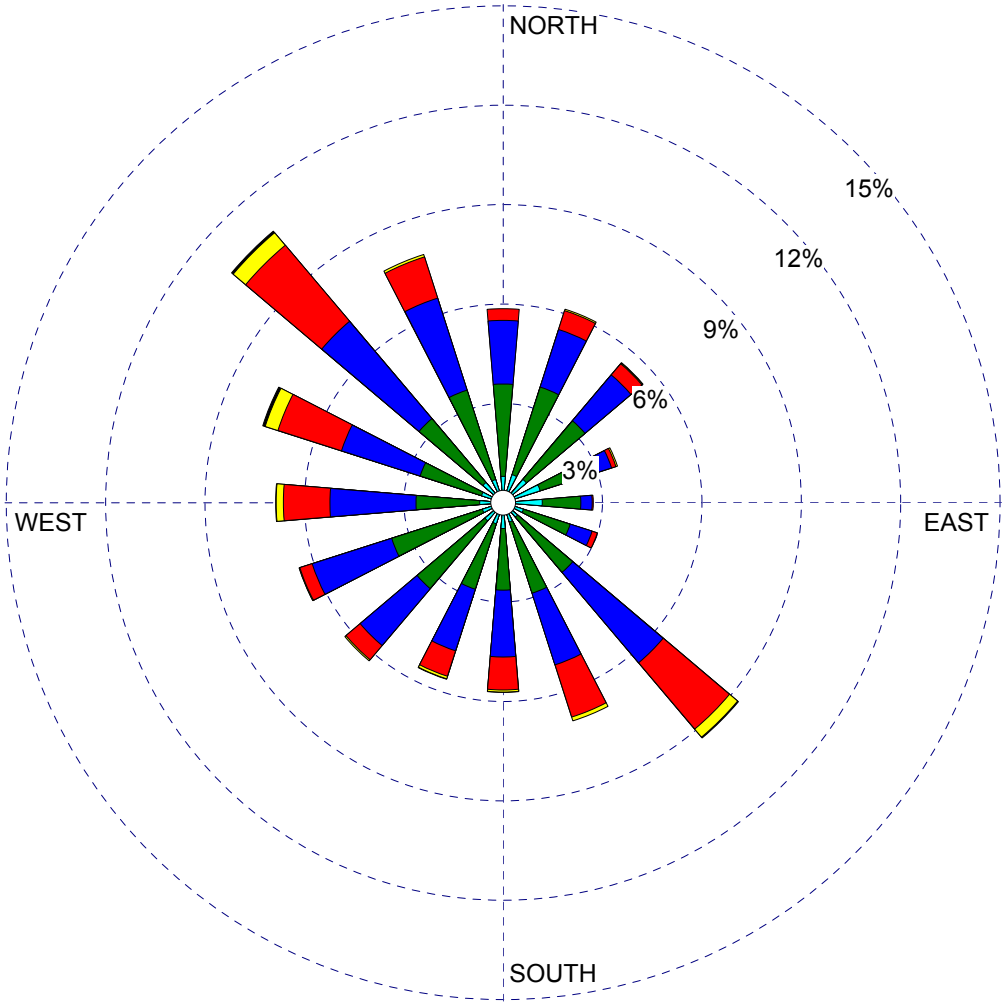
Locations and Categories of Regional Weather Monitoring Stations

FIGURE 2.3-11

Rev 0



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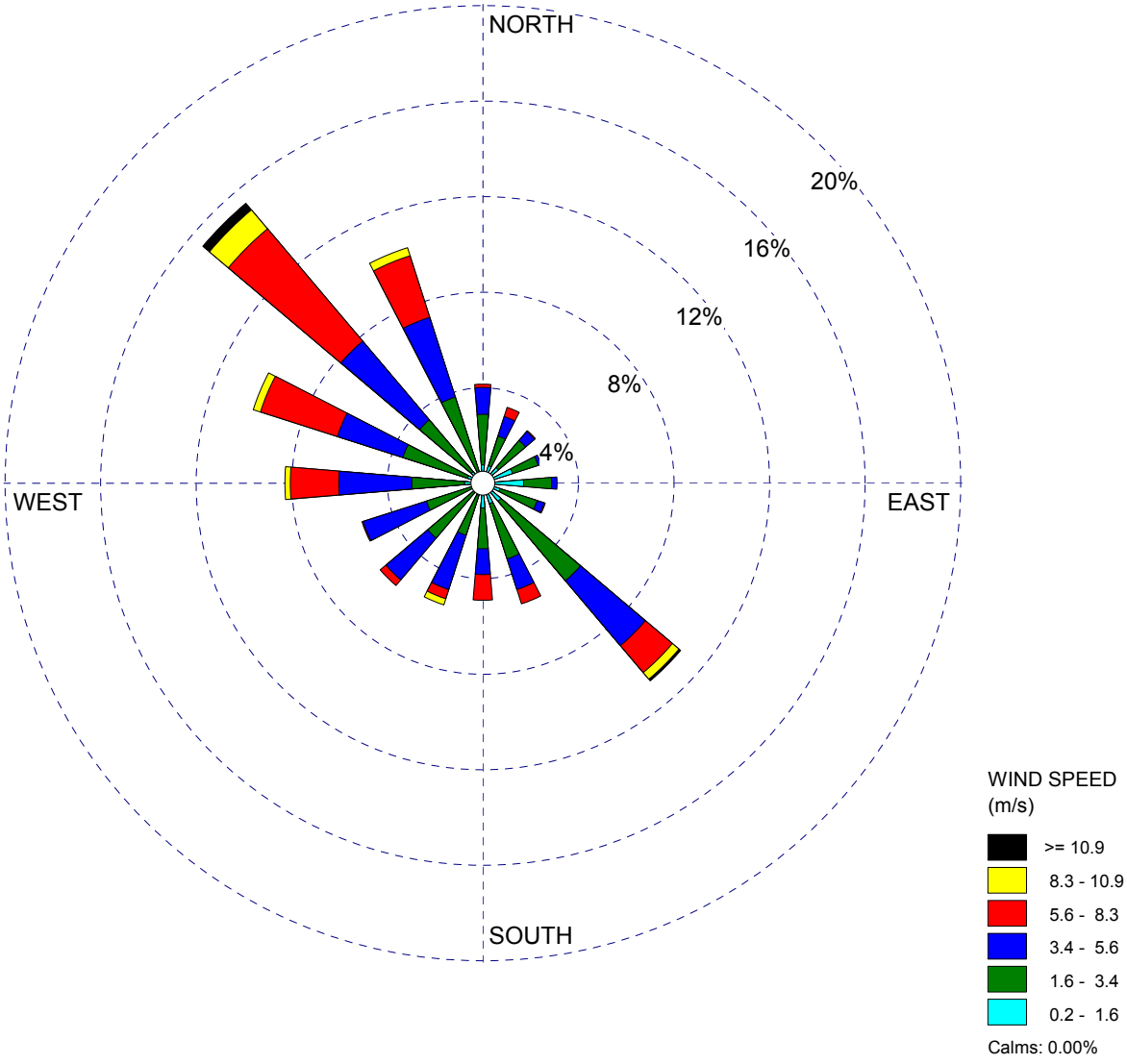
Annual Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-12

Rev 0



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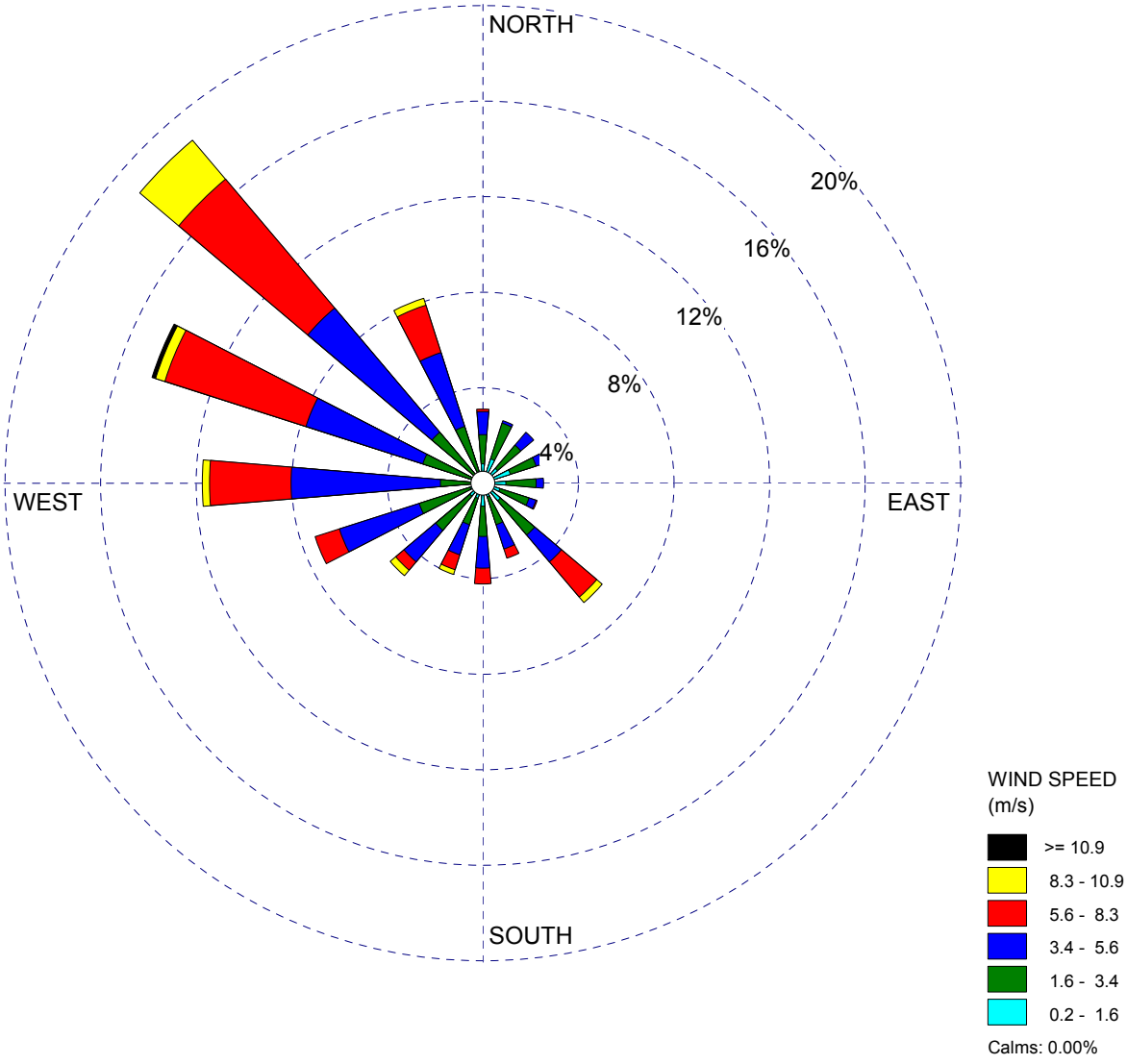
January Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-13

Rev 0



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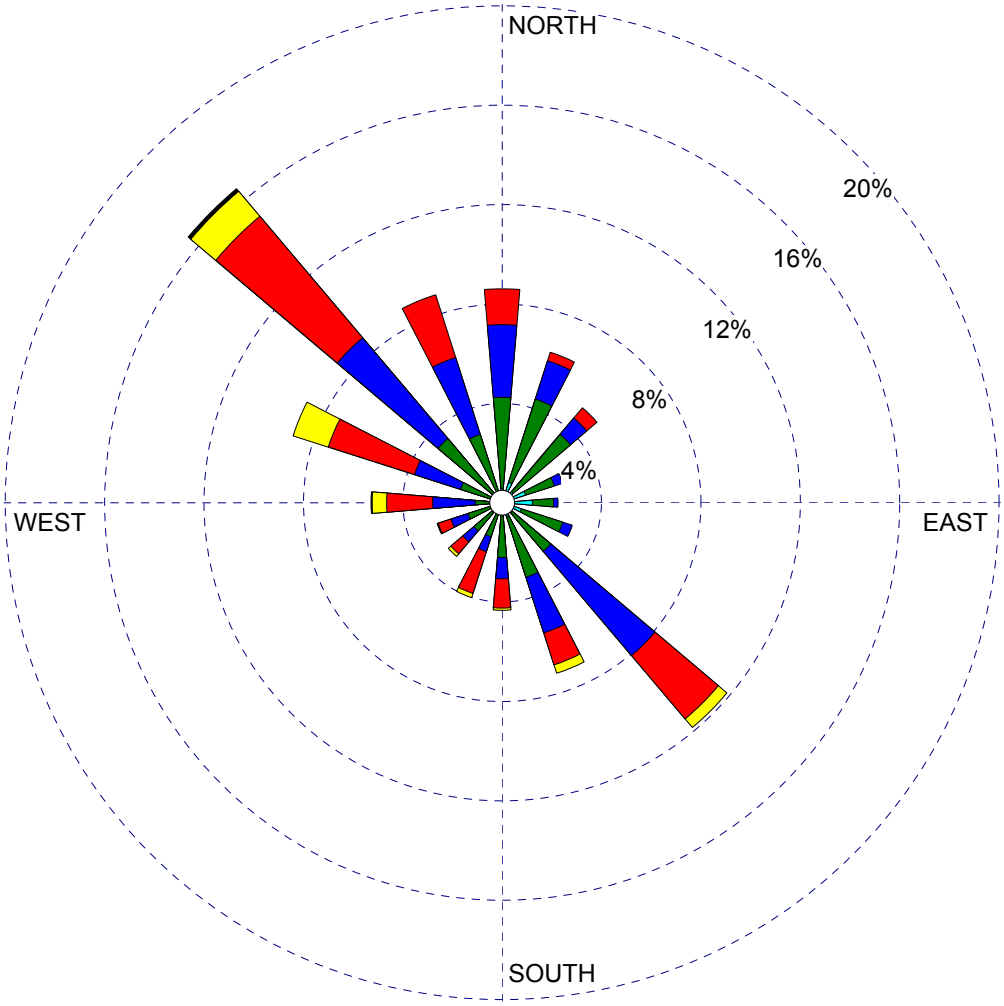
February Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-14

Rev 0



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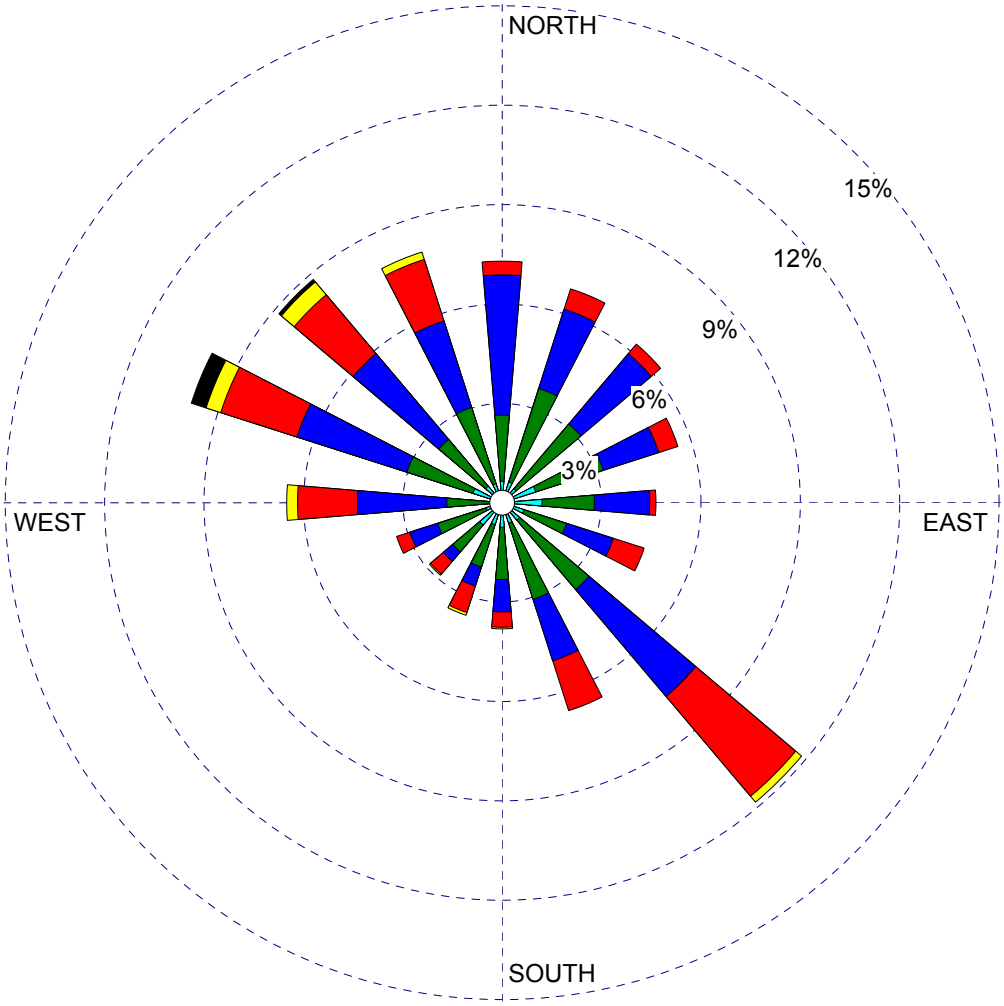
March Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-15

Rev 0



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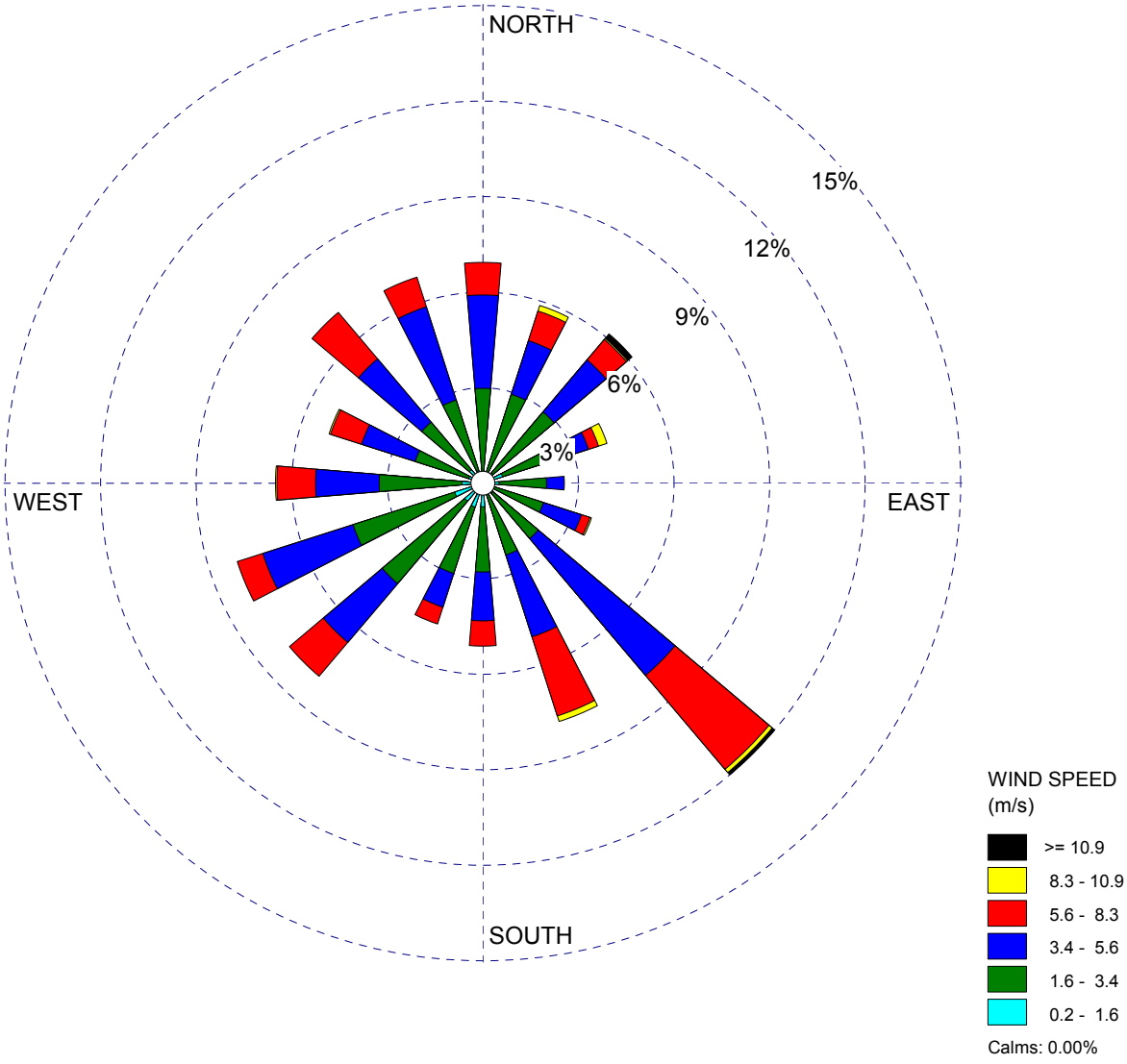
April Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-16

Rev 0



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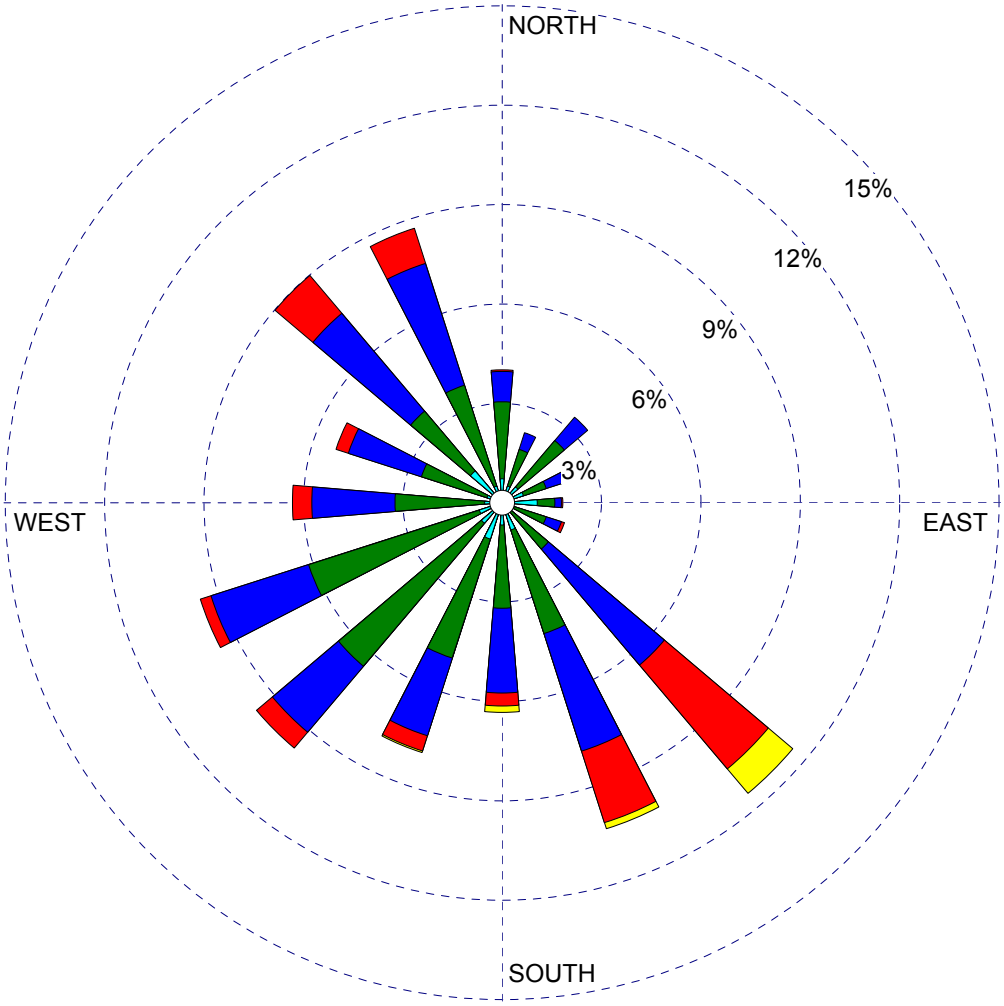
May Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-17

Rev 0



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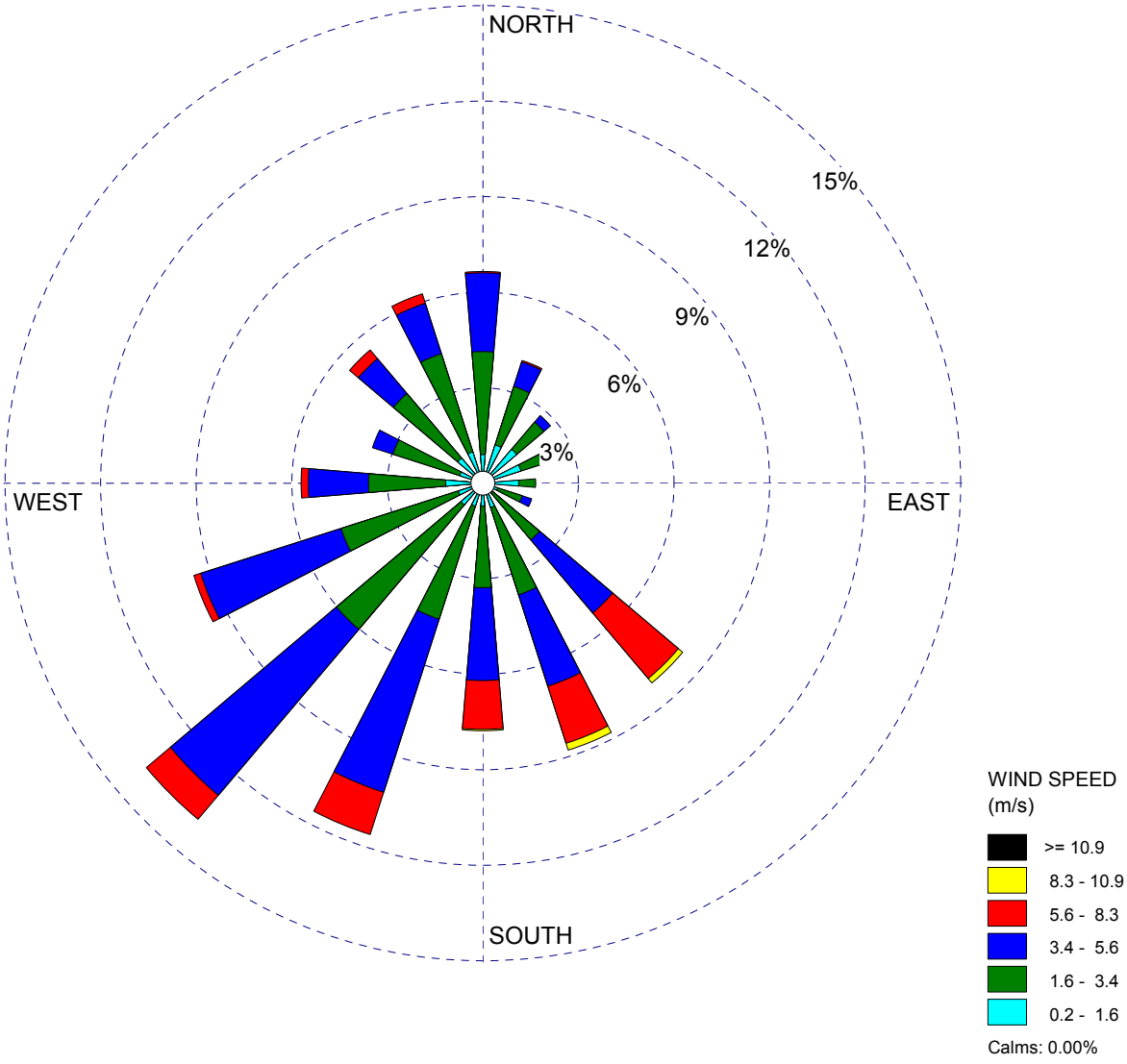
June Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-18

Rev 0



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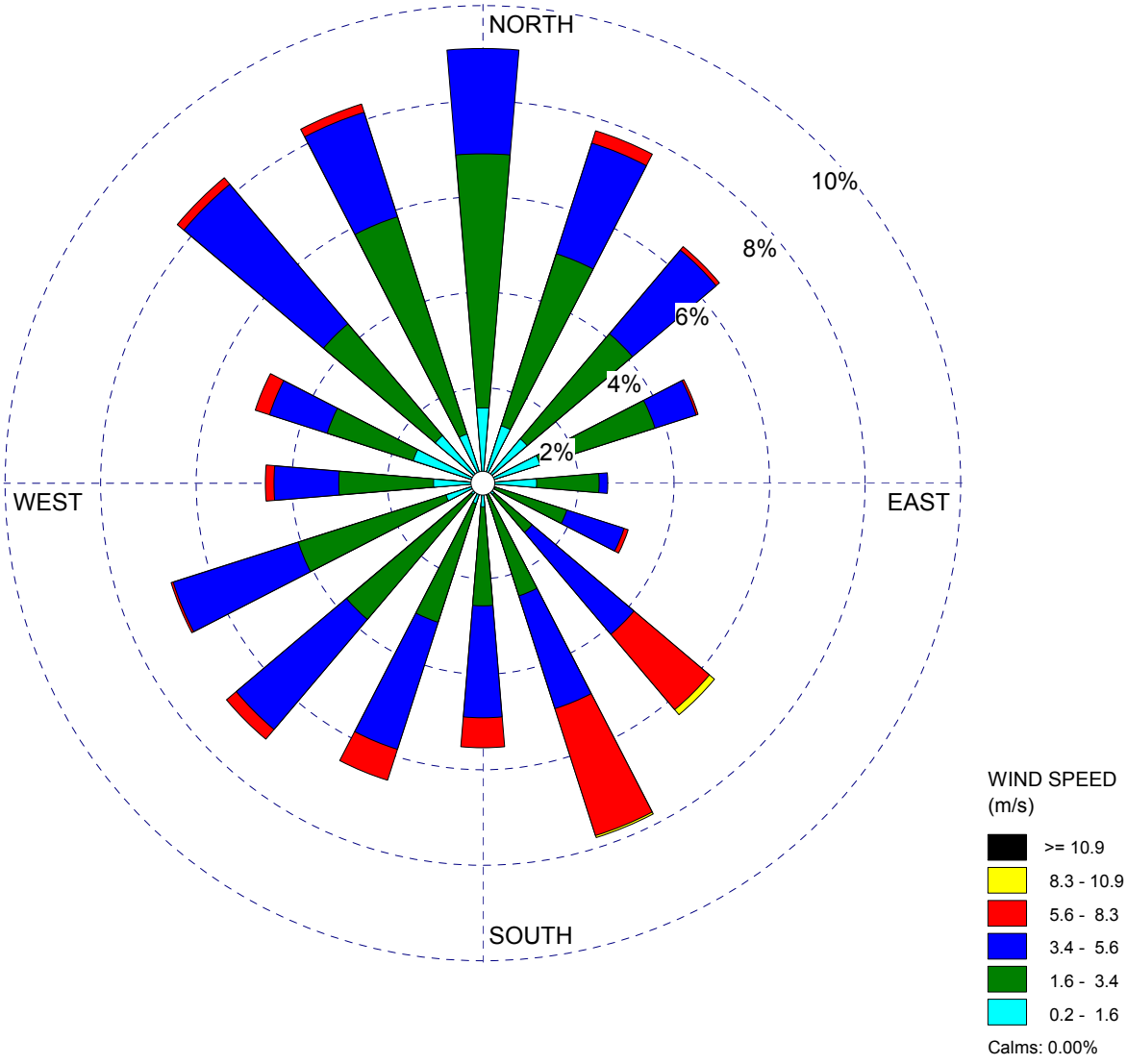
July Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-19

Rev 0



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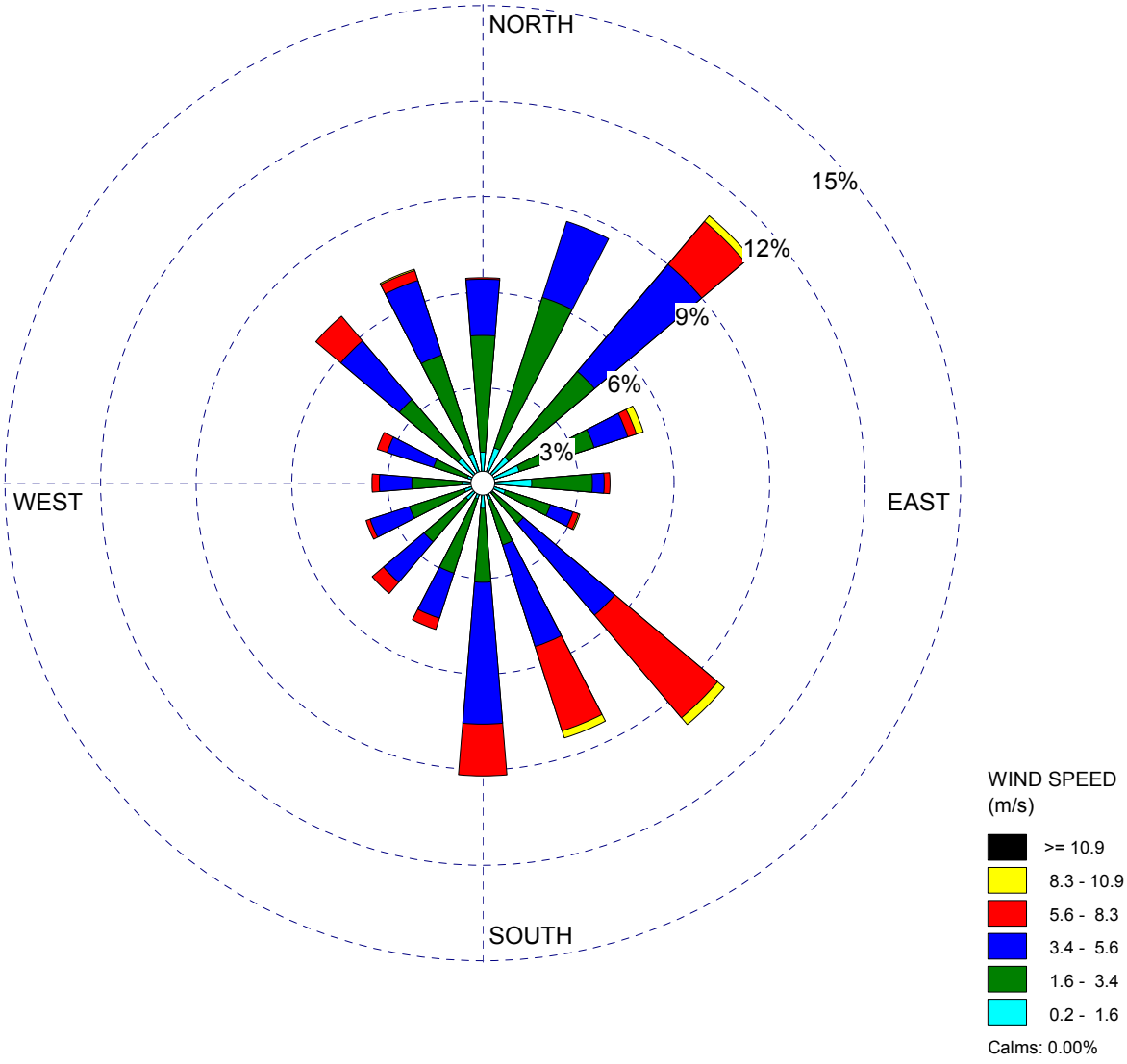
Part 2, Site Safety Analysis Report

August Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-20

Rev 0



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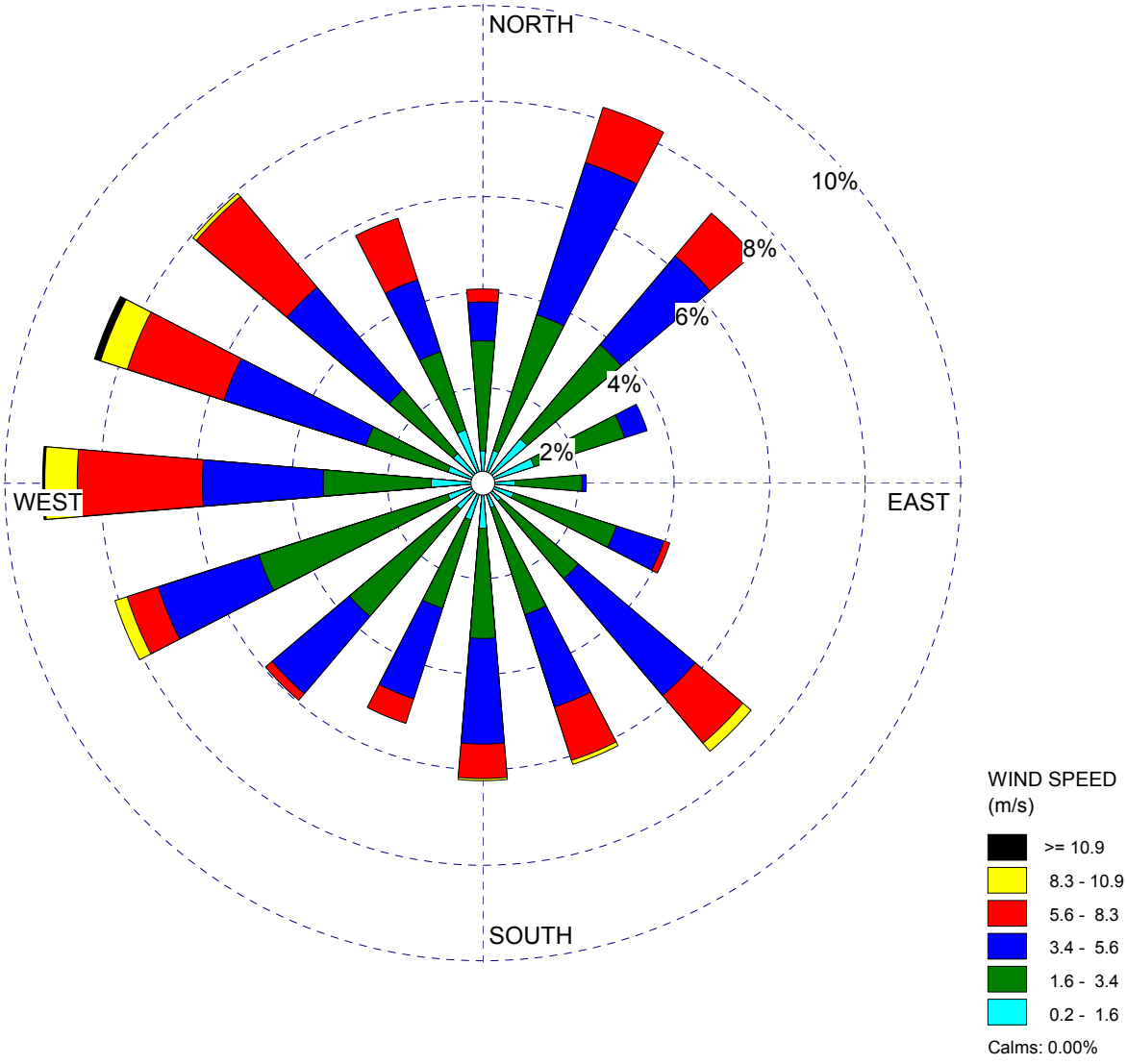
September Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-21

Rev 0



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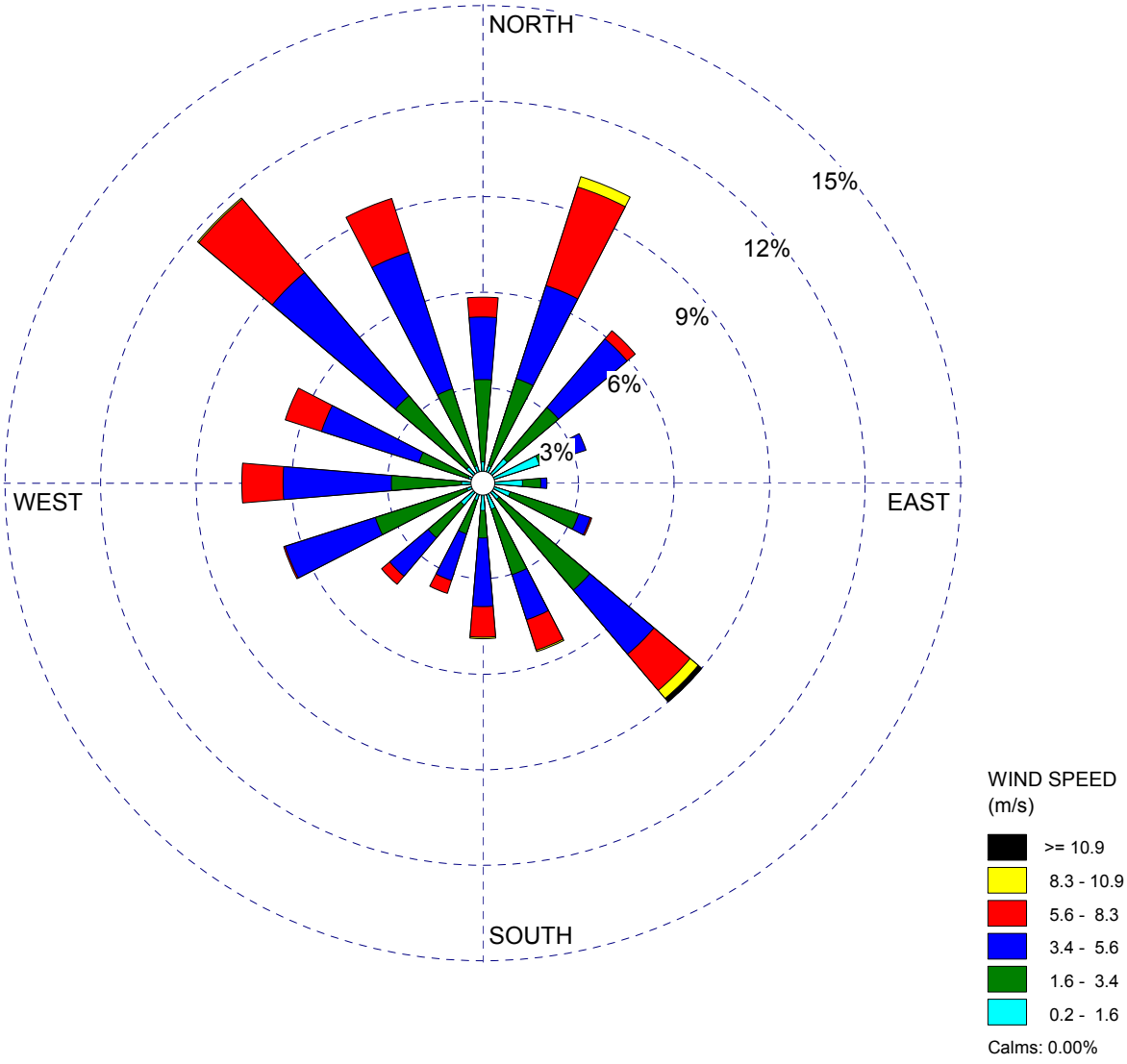
Part 2, Site Safety Analysis Report

October Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-22

Rev 0



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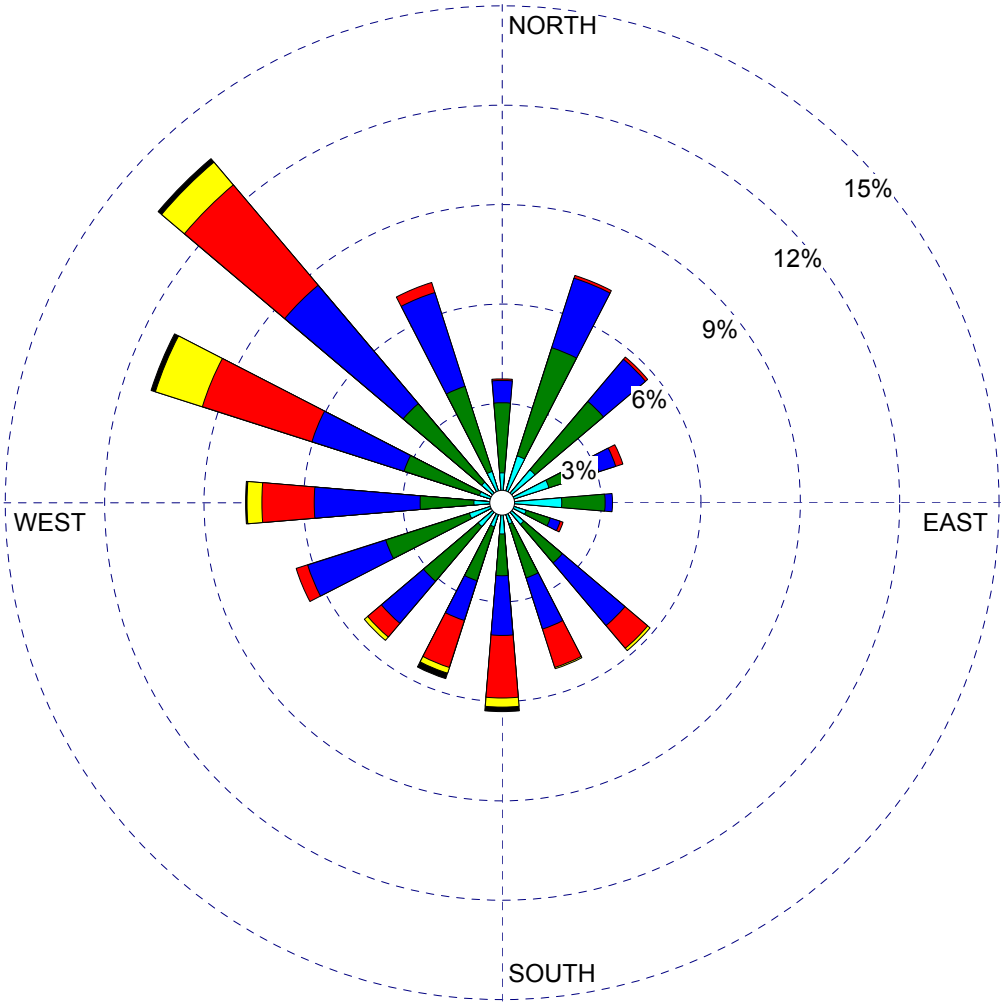
PSEG Site ESPA
Part 2, Site Safety Analysis Report

November Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-23

Rev 0



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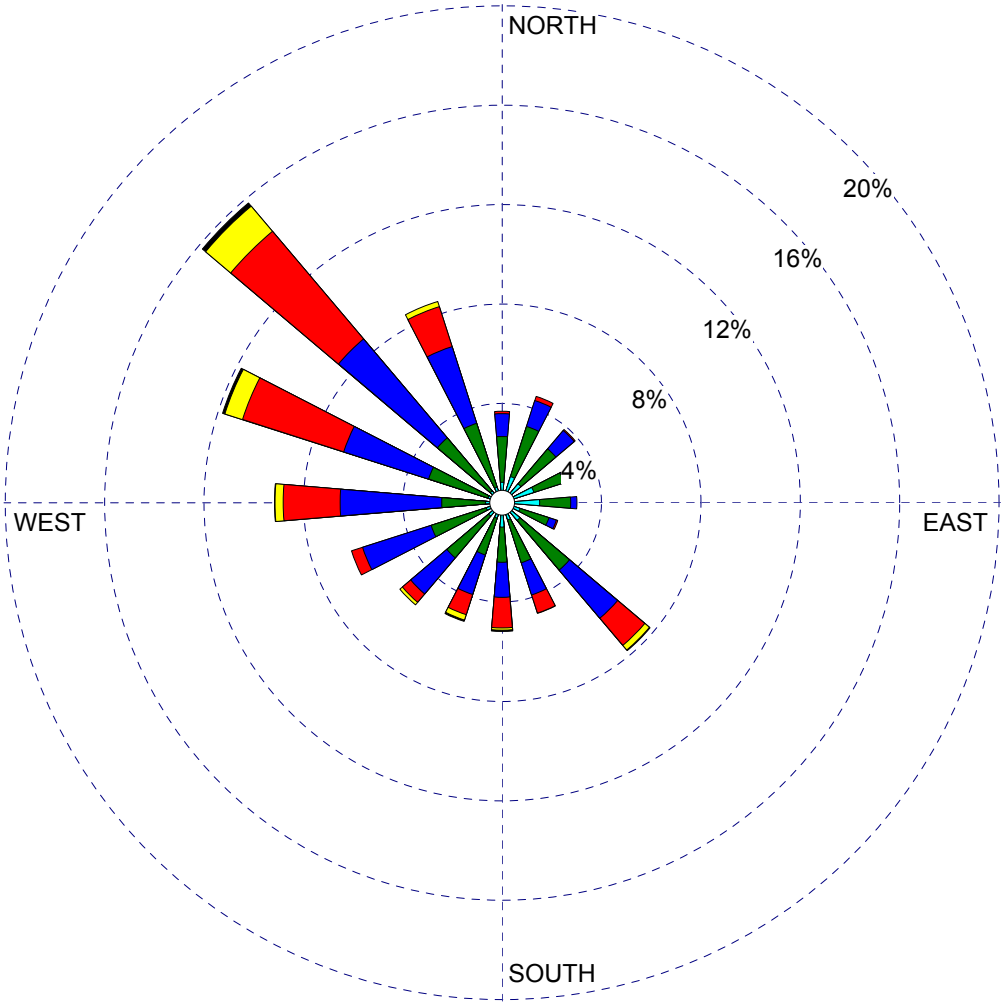
PSEG Site ESPA
Part 2, Site Safety Analysis Report

December Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-24

Rev 0



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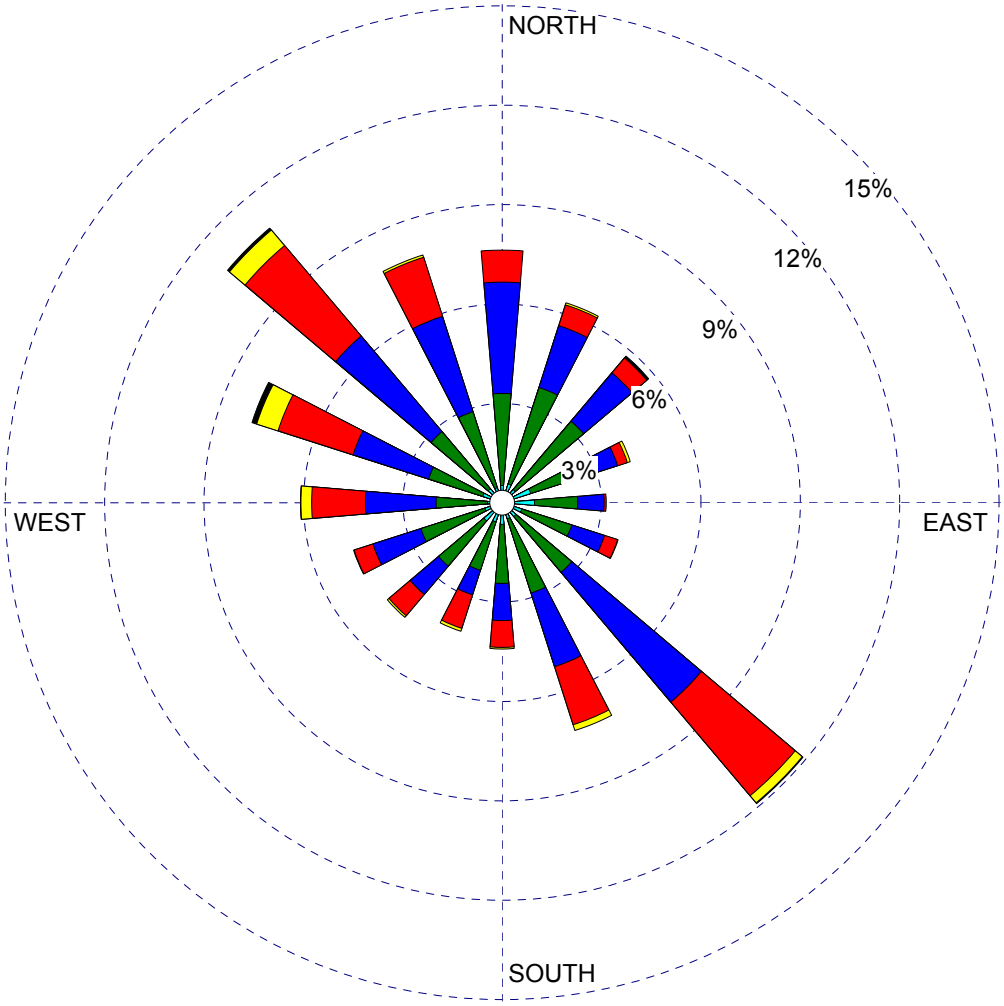
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Winter Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-25

Rev 0



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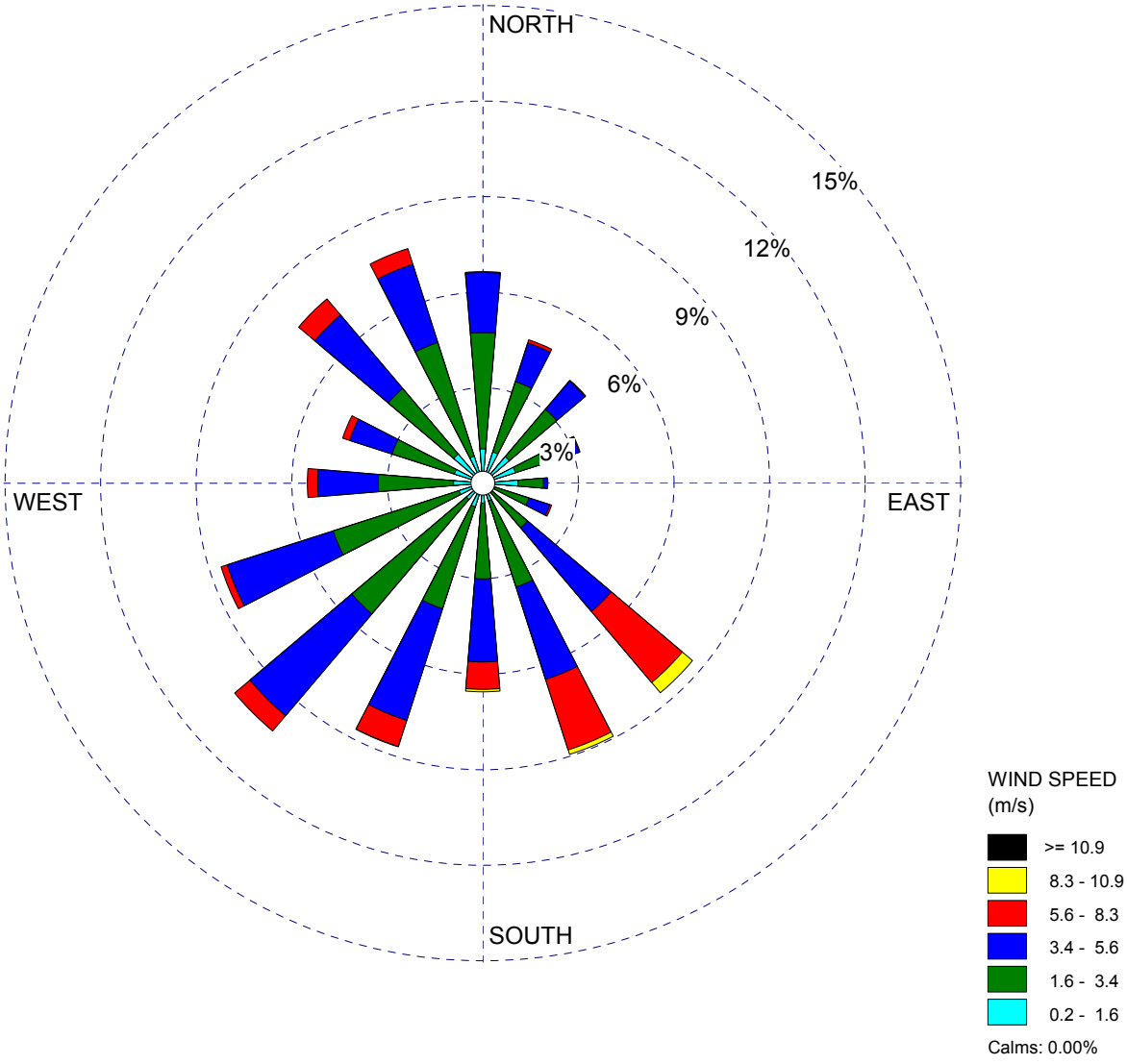
Part 2, Site Safety Analysis Report

Spring Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-26

Rev 0



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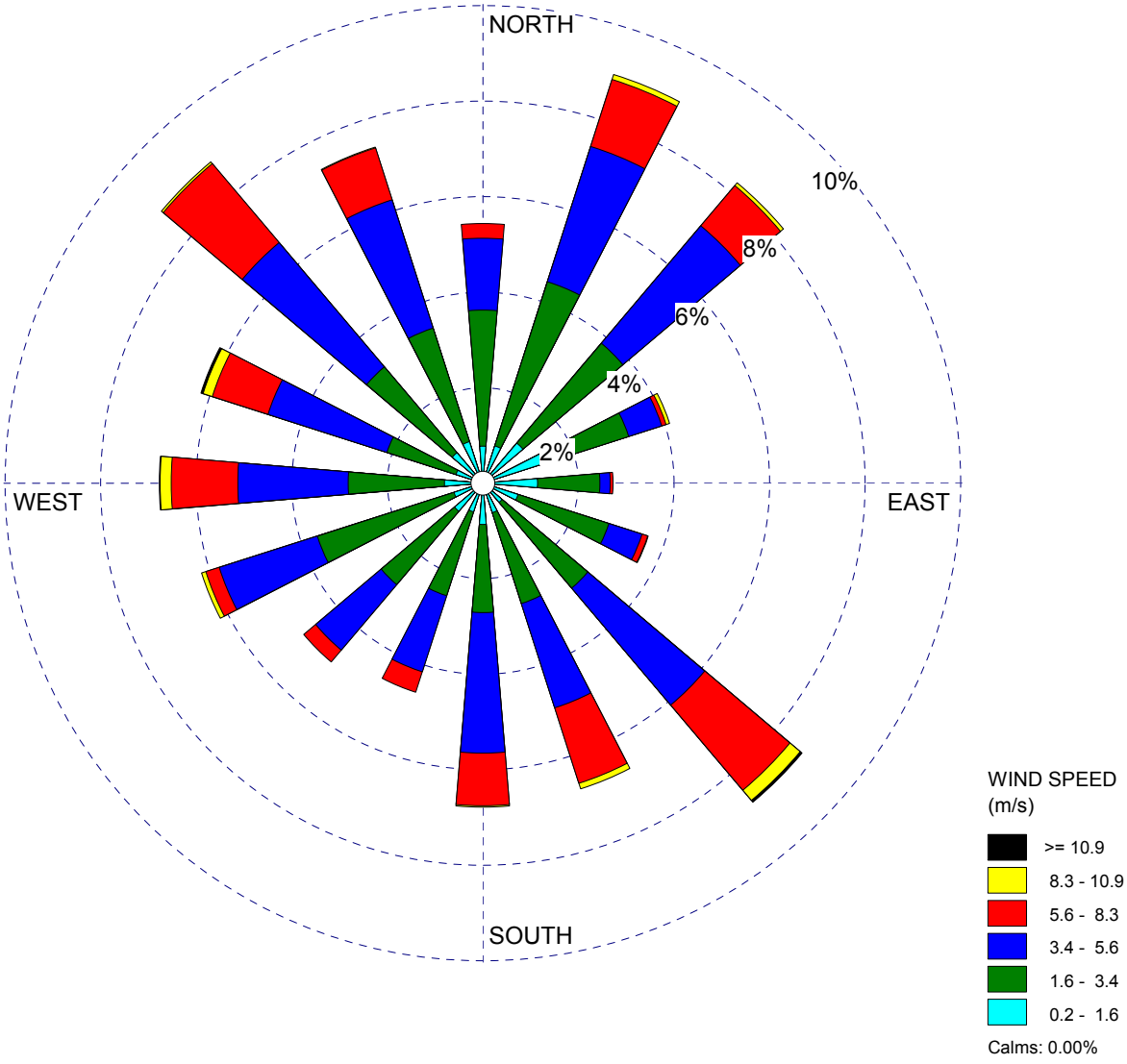
Summer Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-27

Rev 0



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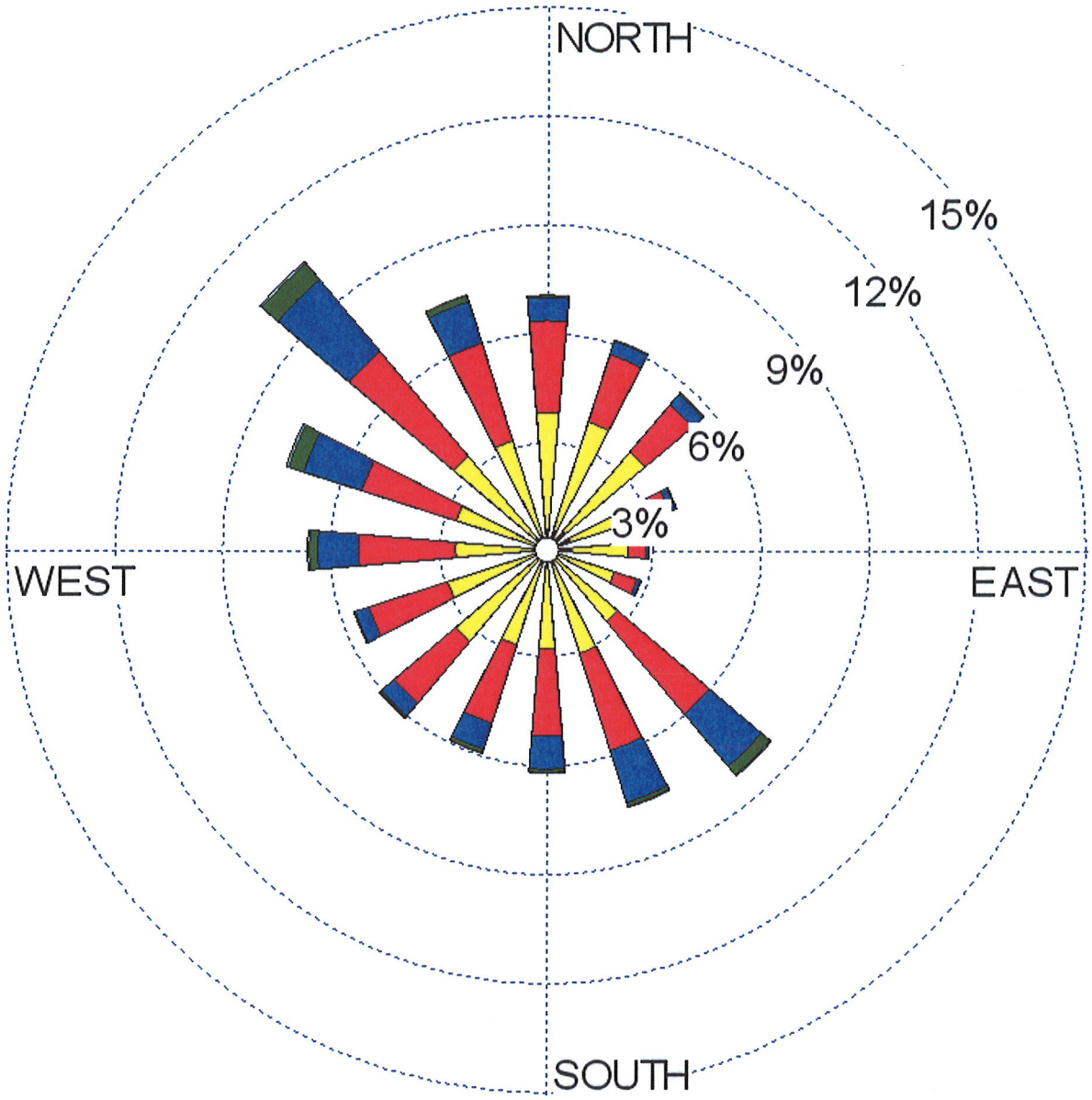
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Autumn Mean Wind Rose at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008

FIGURE 2.3-28

Rev 0



WIND SPEED
(m/s)

- >= 10.9
- 8.3 - 10.9
- 5.6 - 8.3
- 3.4 - 5.6
- 1.6 - 3.4
- 0.2 - 1.6

Calms: 0.12%

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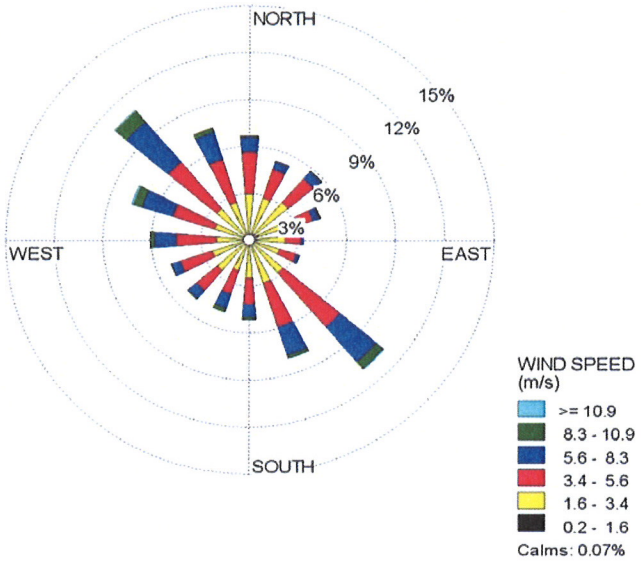
PSEG Site ESPA
Part 2, Site Safety Analysis Report

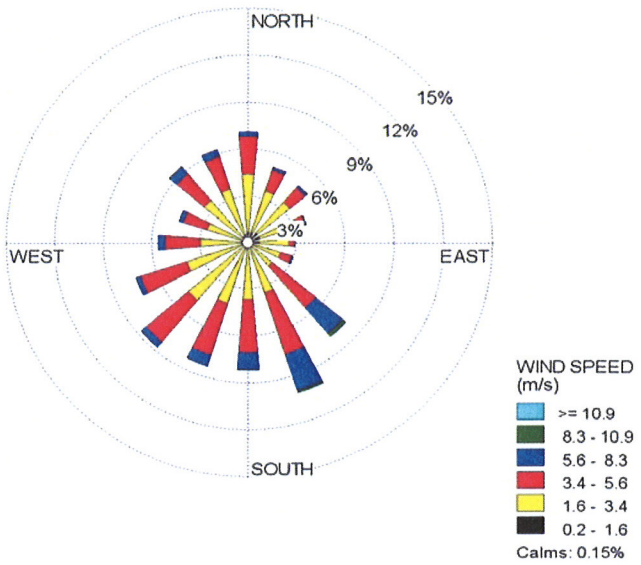
Annual Mean Wind Rose at S/HC Primary Meteorological Tower 33-ft. Level During 32 Year Period 1977 - 2008

FIGURE 2.3-29 Rev 0

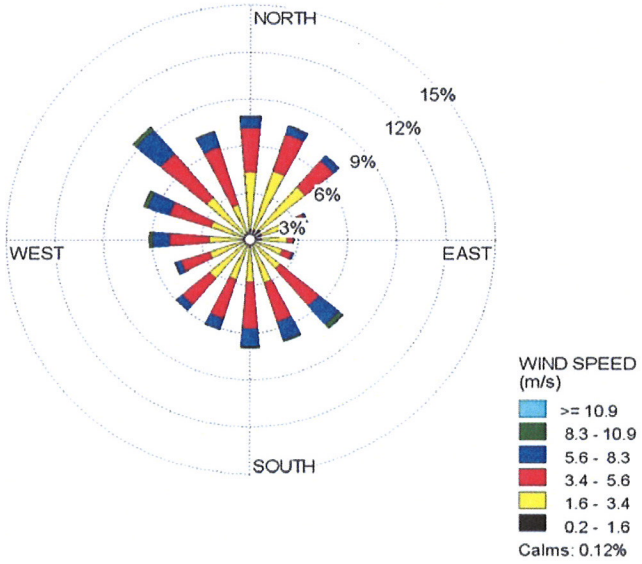
Spring



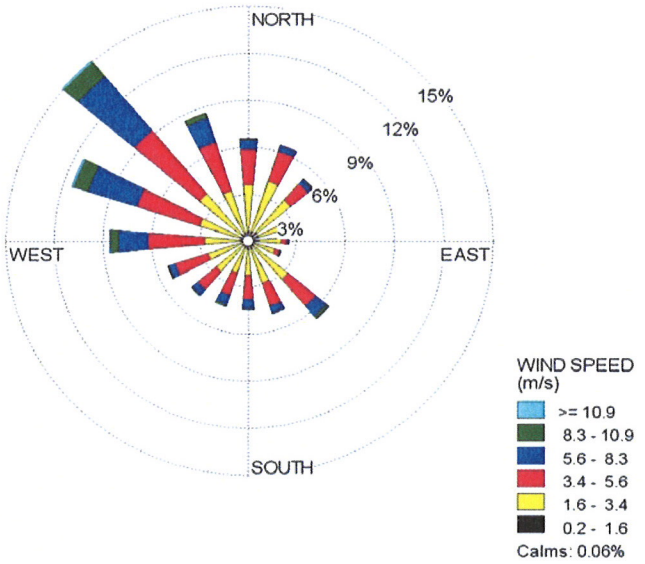
Summer



Autumn



Winter



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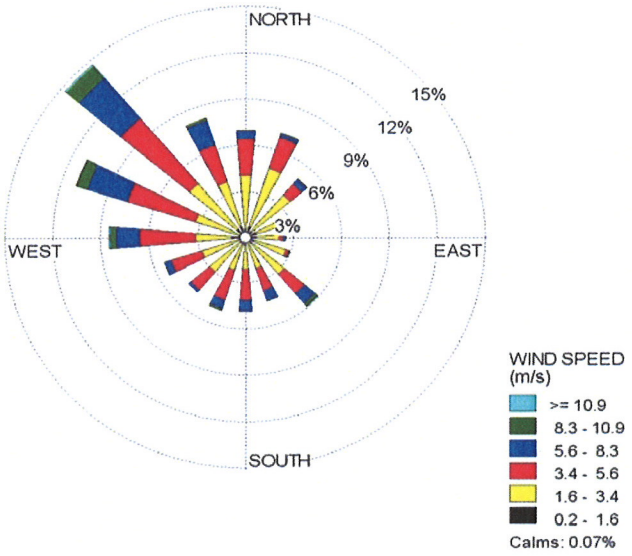
PSEG Site ESPA
Part 2, Site Safety Analysis Report

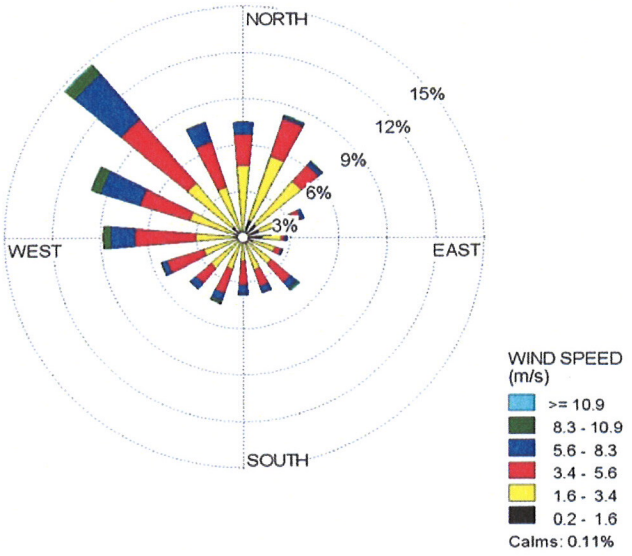
Seasonal Wind Roses at S/HC Primary Meteorological Tower 33-ft. Level During 32 Year Period 1977 - 2008

FIGURE 2.3-30 Rev 0

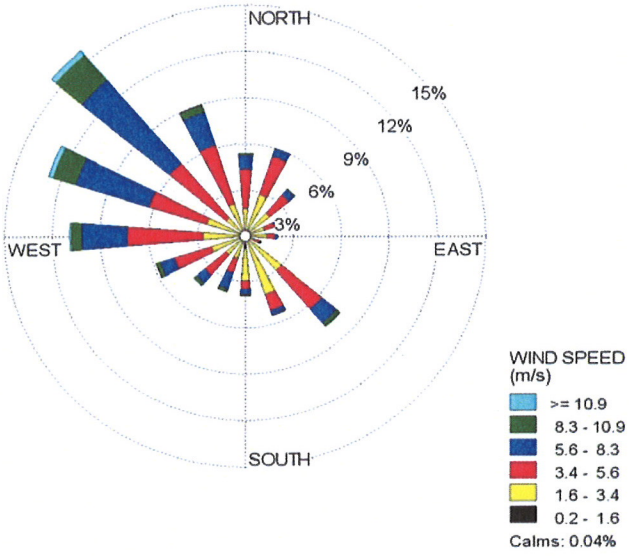
Winter Hour 01



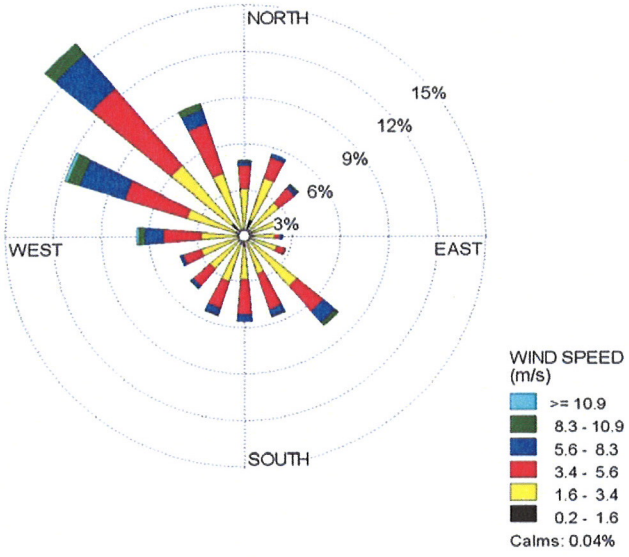
Winter Hour 07



Winter Hour 13



Winter Hour 19



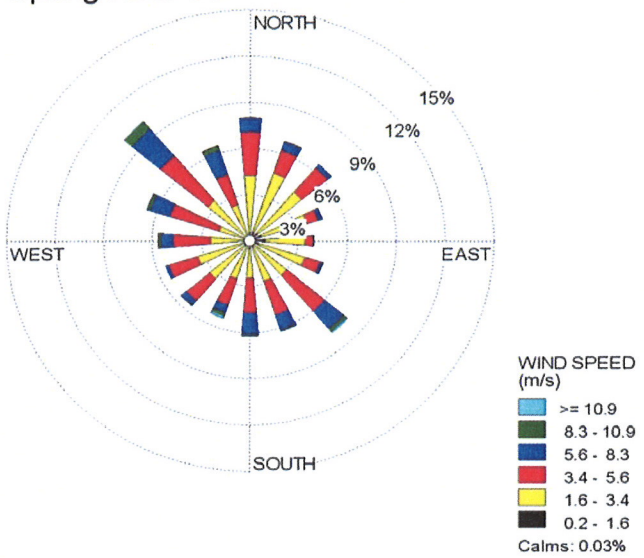
PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

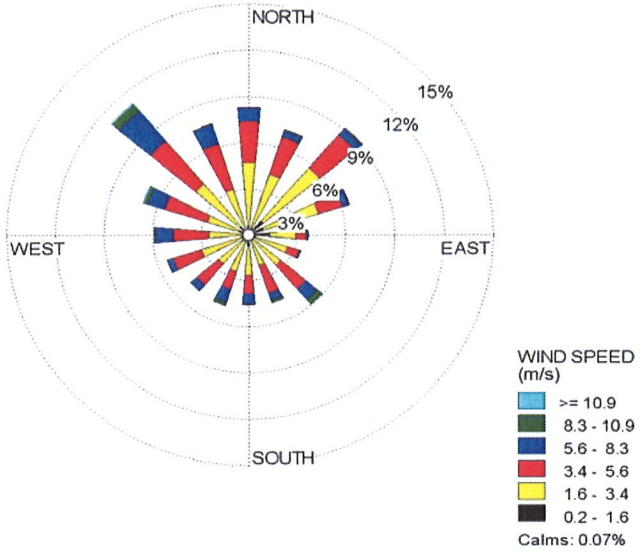
Winter Wind Roses by Hour of Day at S/HC
Primary Meteorological Tower 33-ft. Level
During 32 Year Period 1977 - 2008

FIGURE 2.3-31 Rev 0

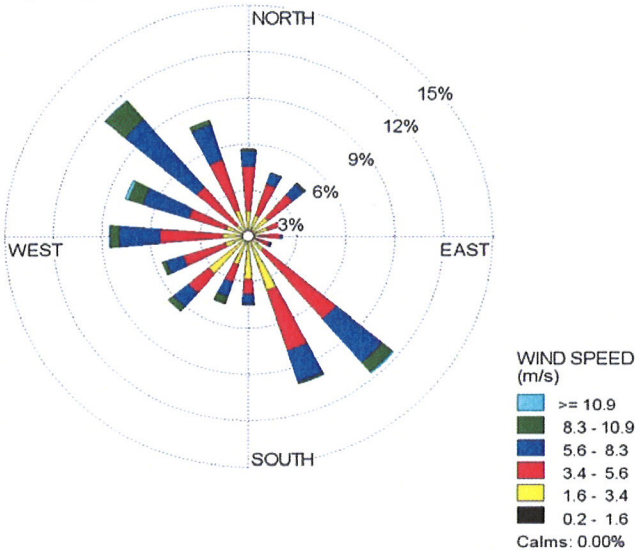
Spring Hour 01



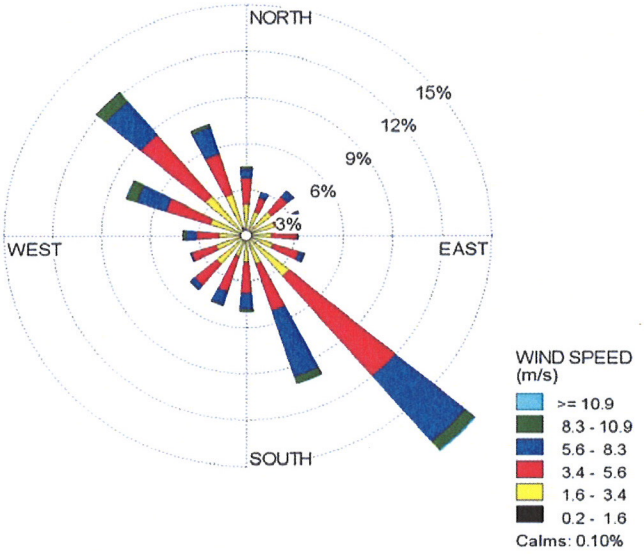
Spring Hour 07



Spring Hour 13



Spring Hour 19

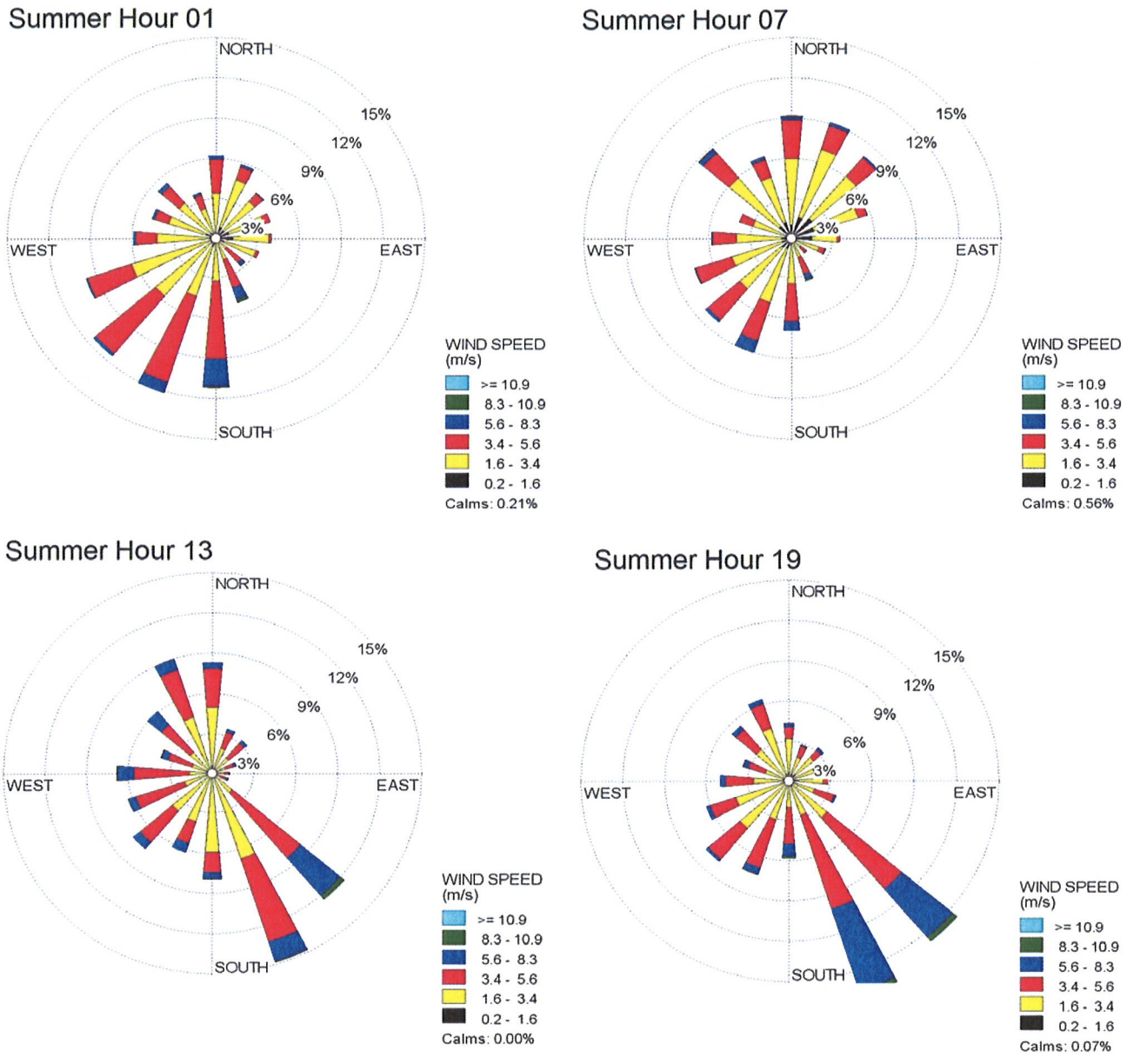


PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Spring Wind Roses by Hour of Day at S/HC
Primary Meteorological Tower 33-ft. Level
During 32 Year Period 1977 - 2008

FIGURE 2.3-32 Rev 0



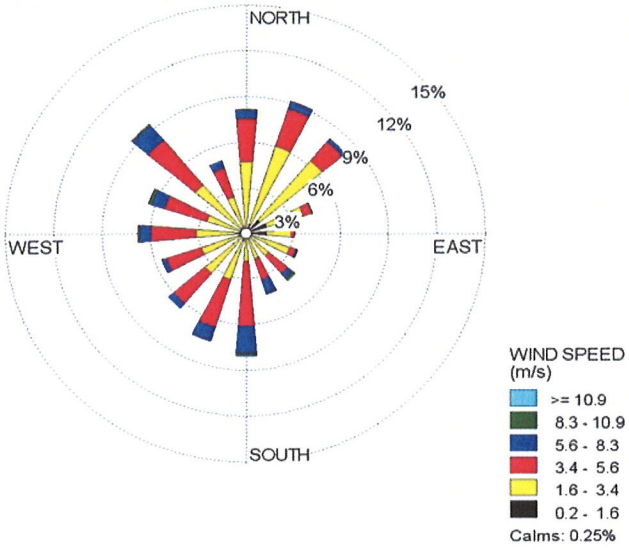
PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

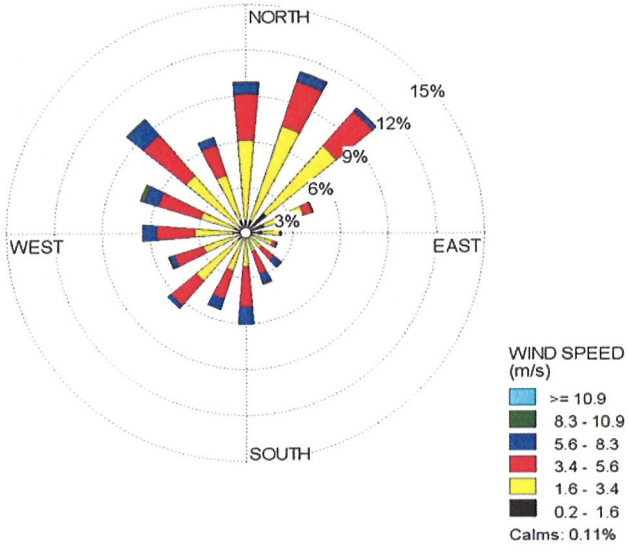
Summer Wind Roses by Hour of Day at S/HC Primary Meteorological Tower 33-ft. Level During 32 Year Period 1977 - 2008

FIGURE 2.3-33 Rev 0

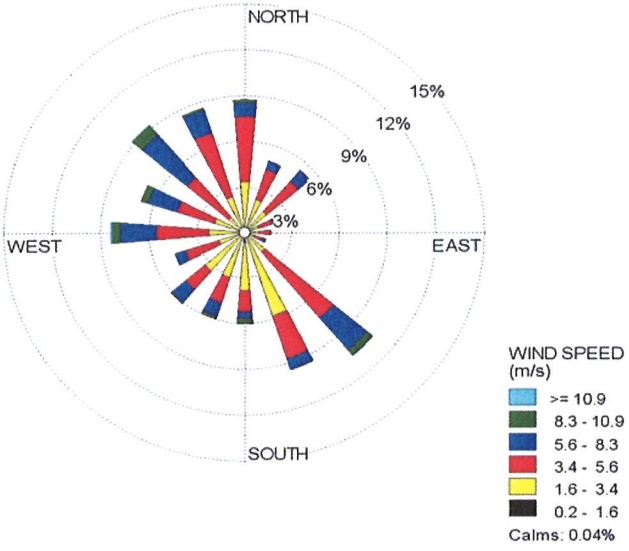
Autumn Hour 01



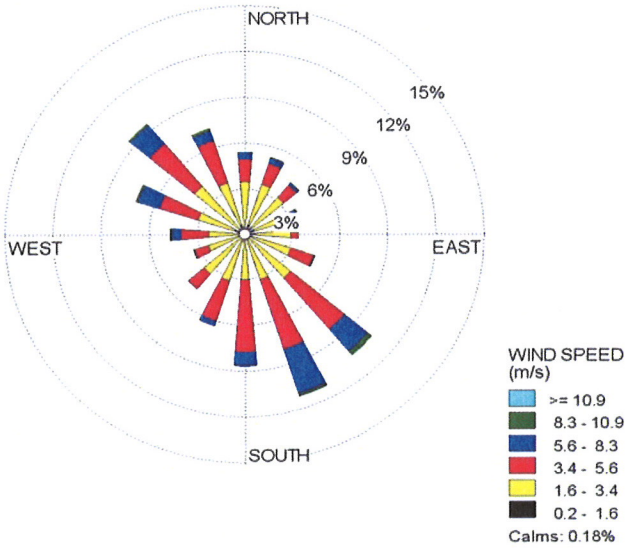
Autumn Hour 07



Autumn Hour 13



Autumn Hour 19



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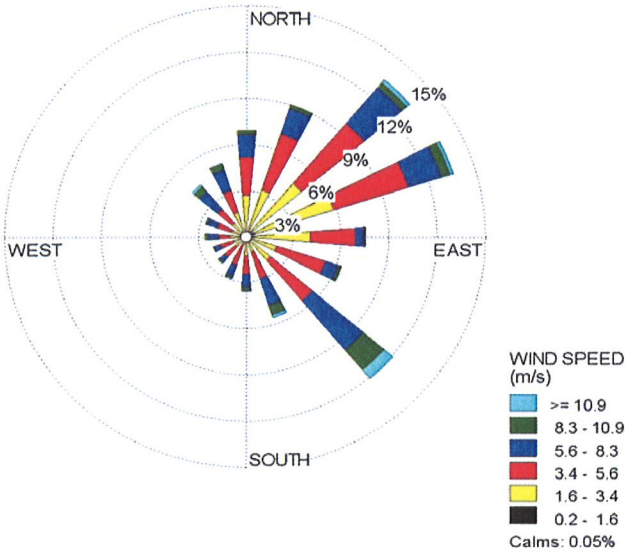
Part 2, Site Safety Analysis Report

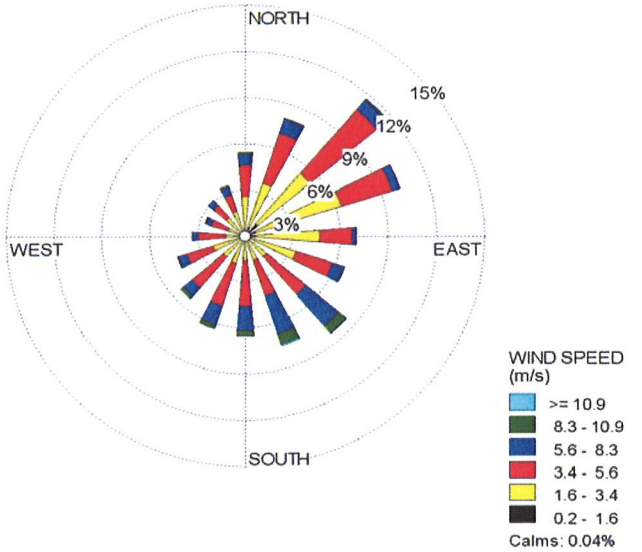
Autumn Wind Roses by Hour of Day at S/HC
Primary Meteorological Tower 33-ft. Level
During 32 Year Period 1977 - 2008

FIGURE 2.3-34 Rev 0

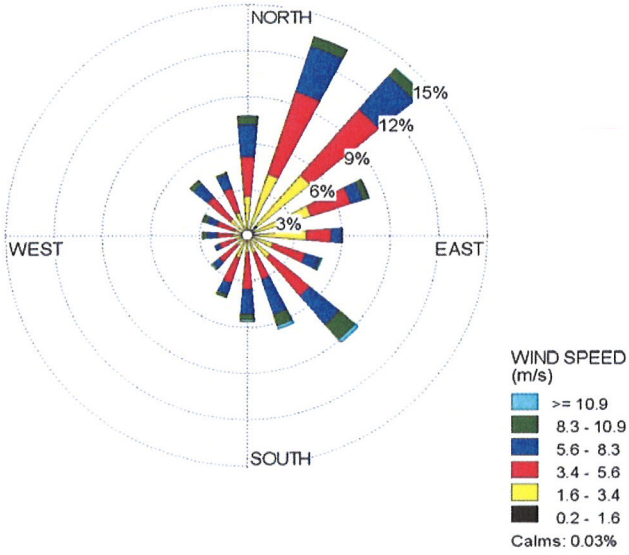
Spring Precip



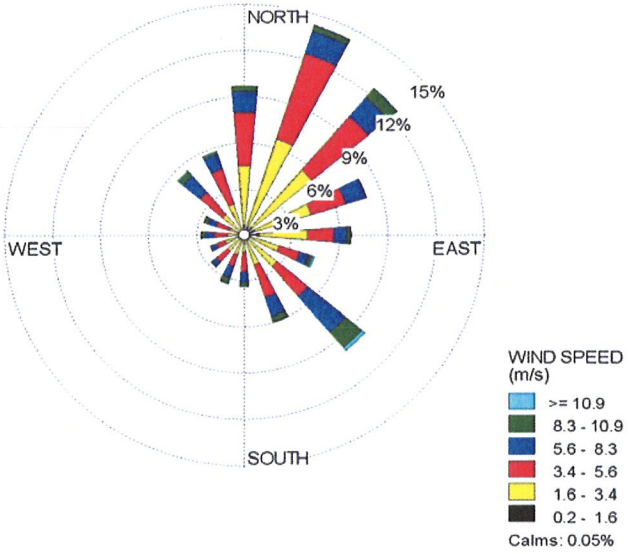
Summer Precip



Autumn Precip



Winter Precip



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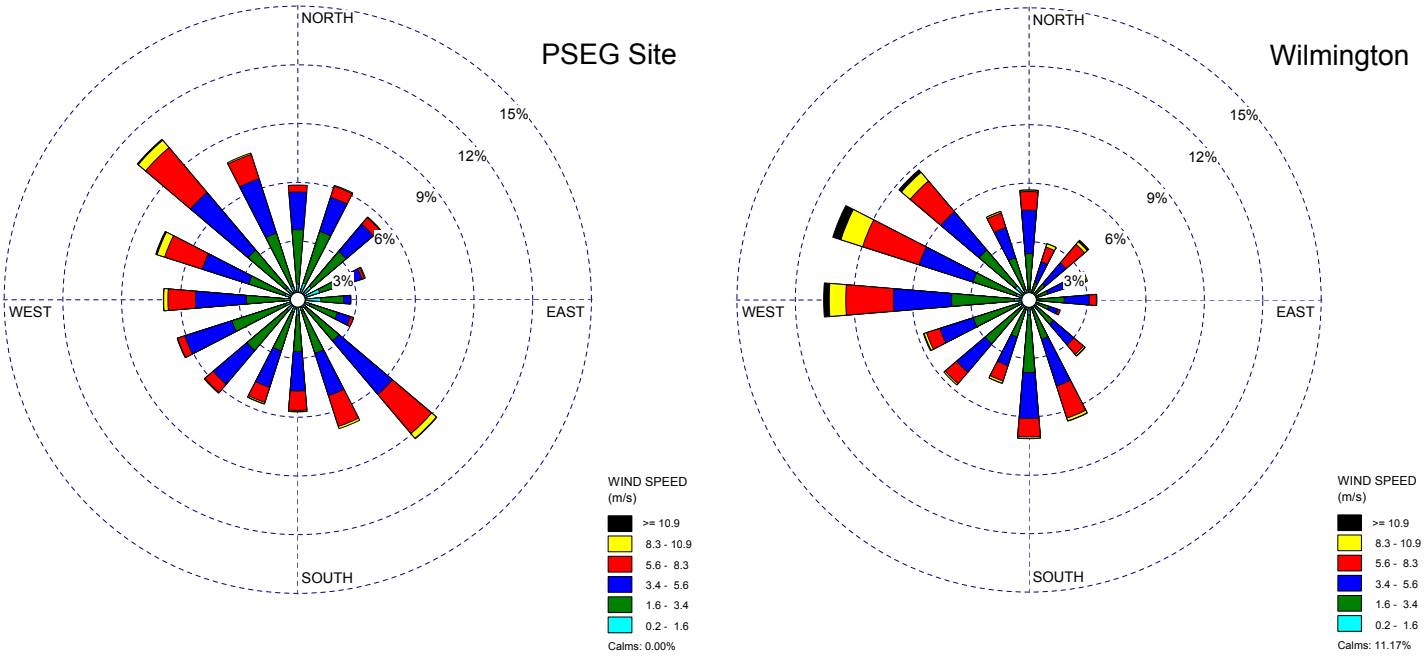
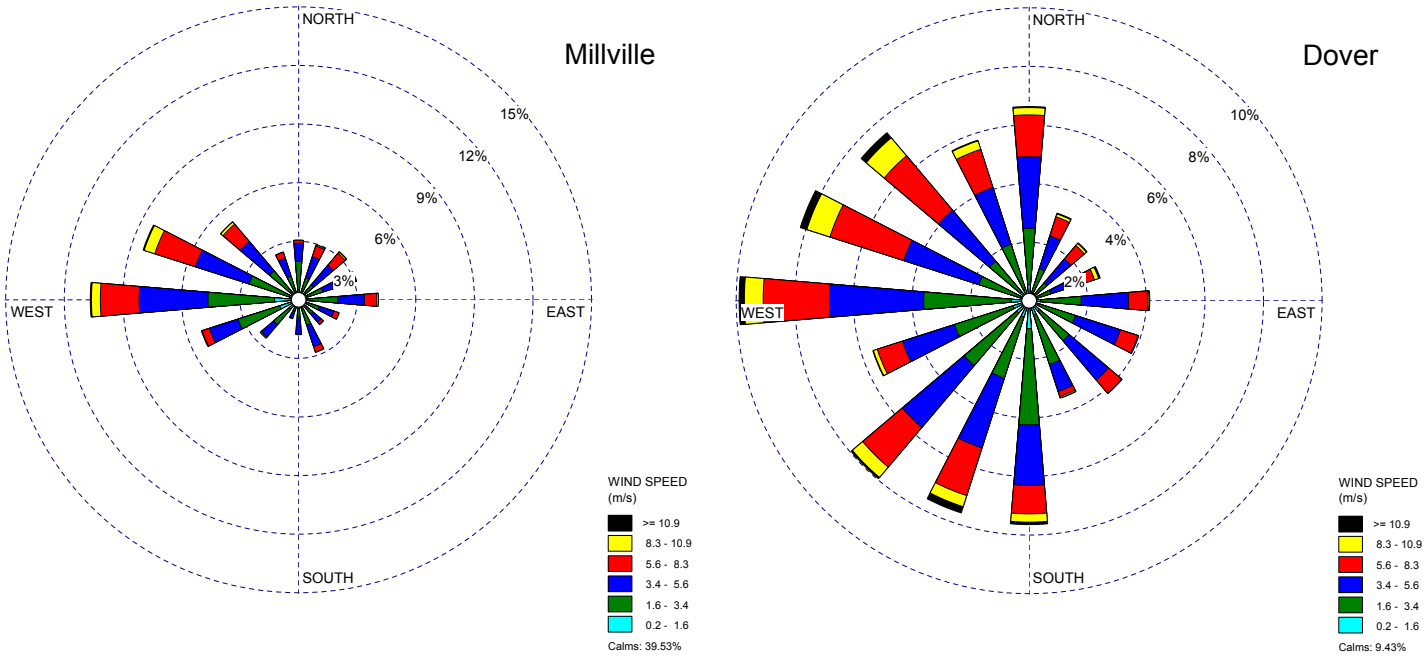
Part 2, Site Safety Analysis Report

Precipitation Hours Only by Season at S/HC
Primary Meteorological Tower 33-ft. Level
During 32 Year Period 1977 - 2008

FIGURE 2.3-35 Rev 0





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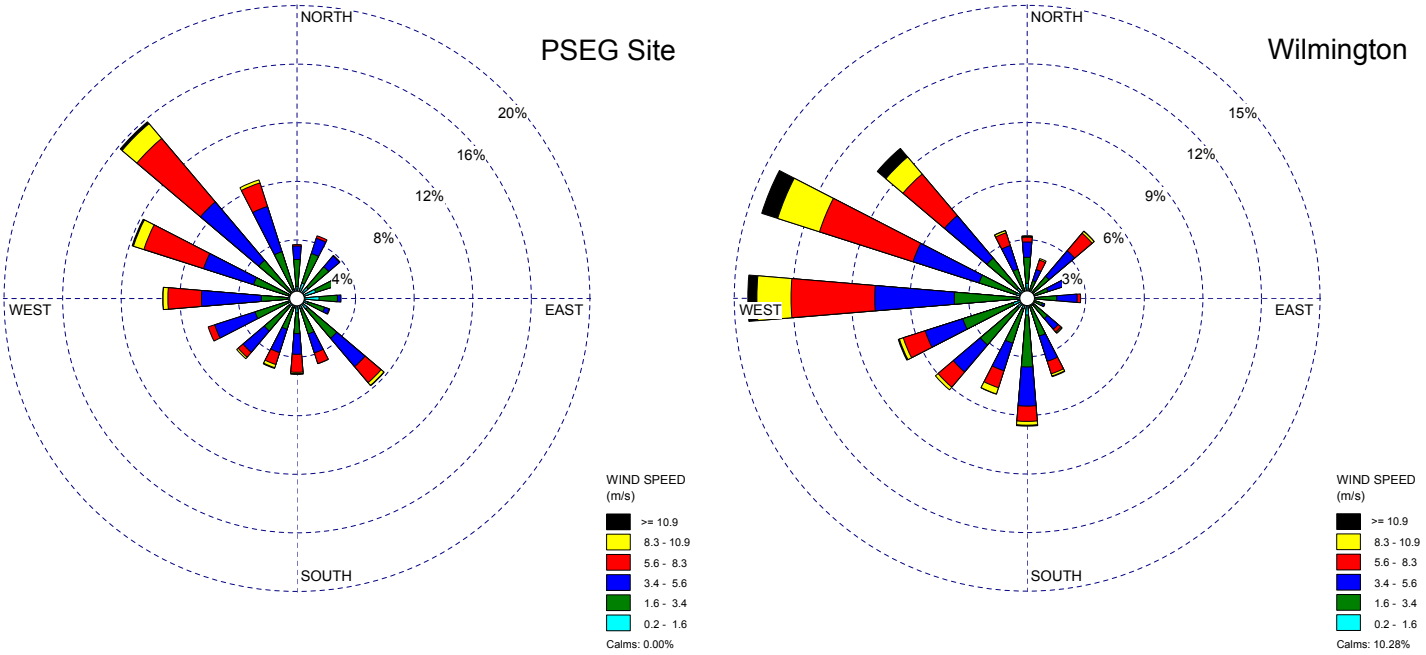
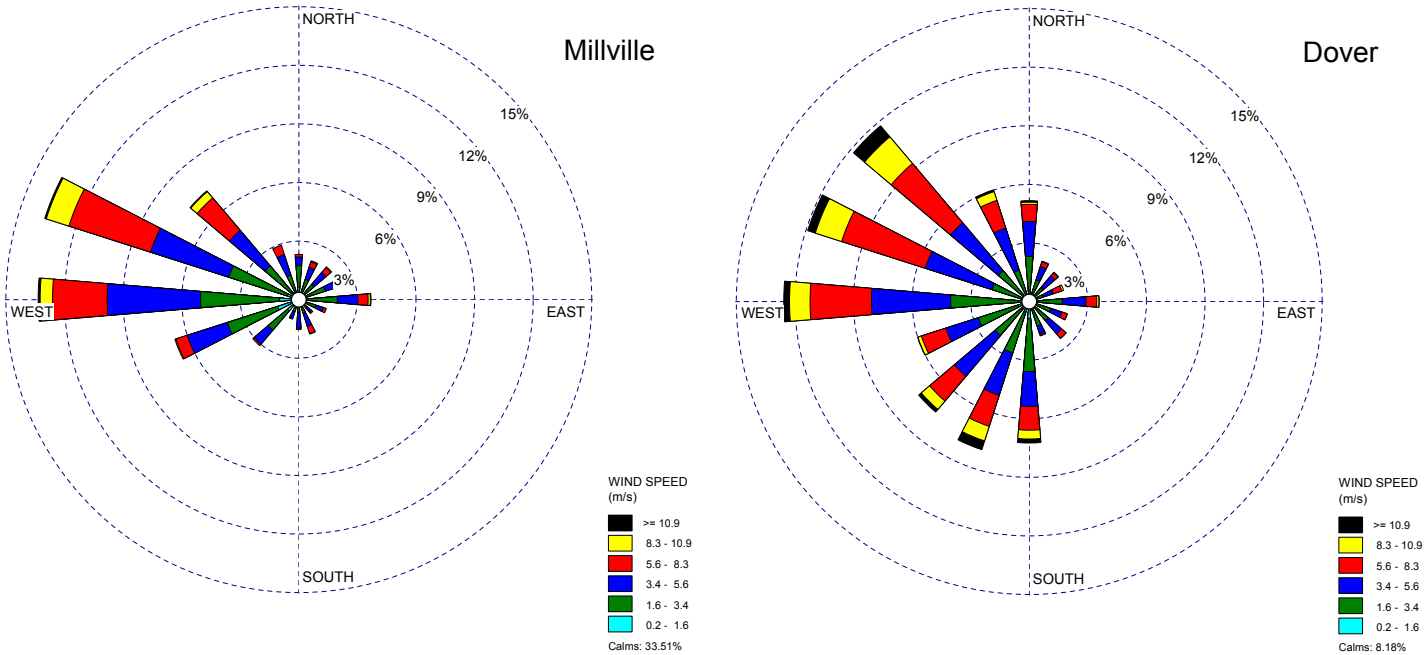
Part 2, Site Safety Analysis Report

Annual Mean Wind Roses at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008 and Long-Term at Wilmington, Millville, and Dover

FIGURE 2.3-36

Rev 0





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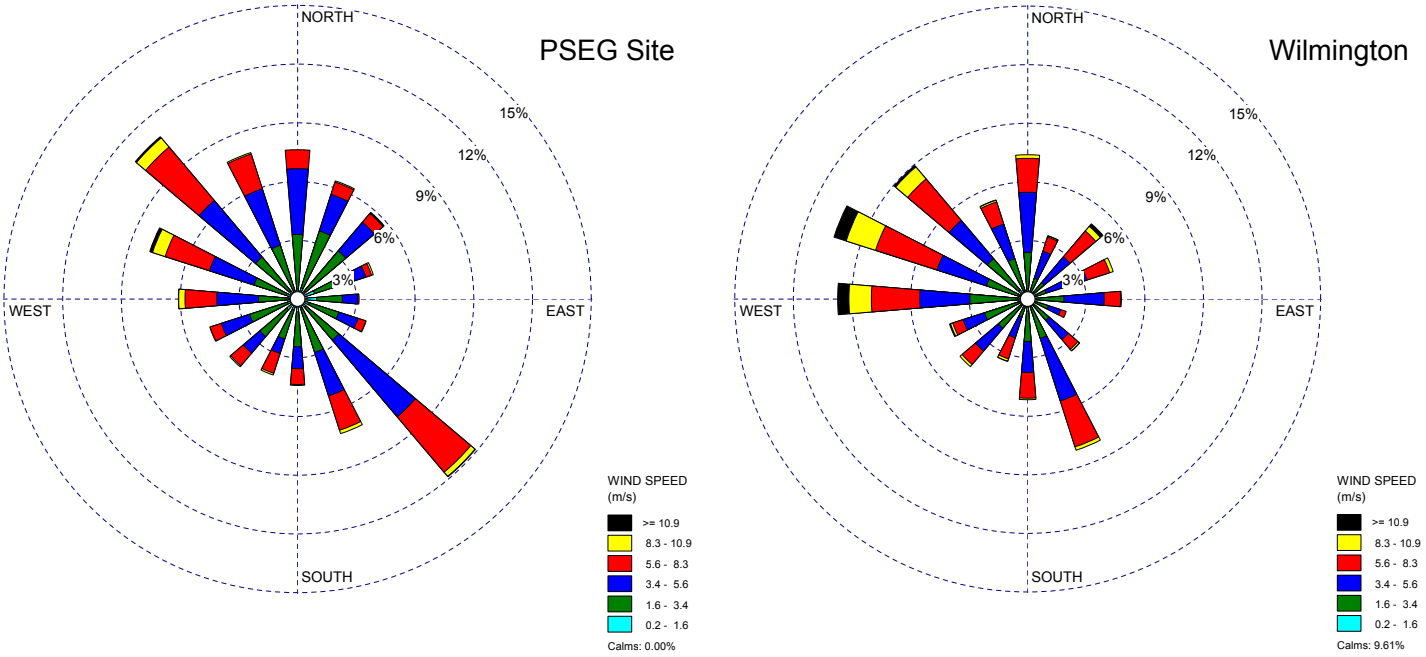
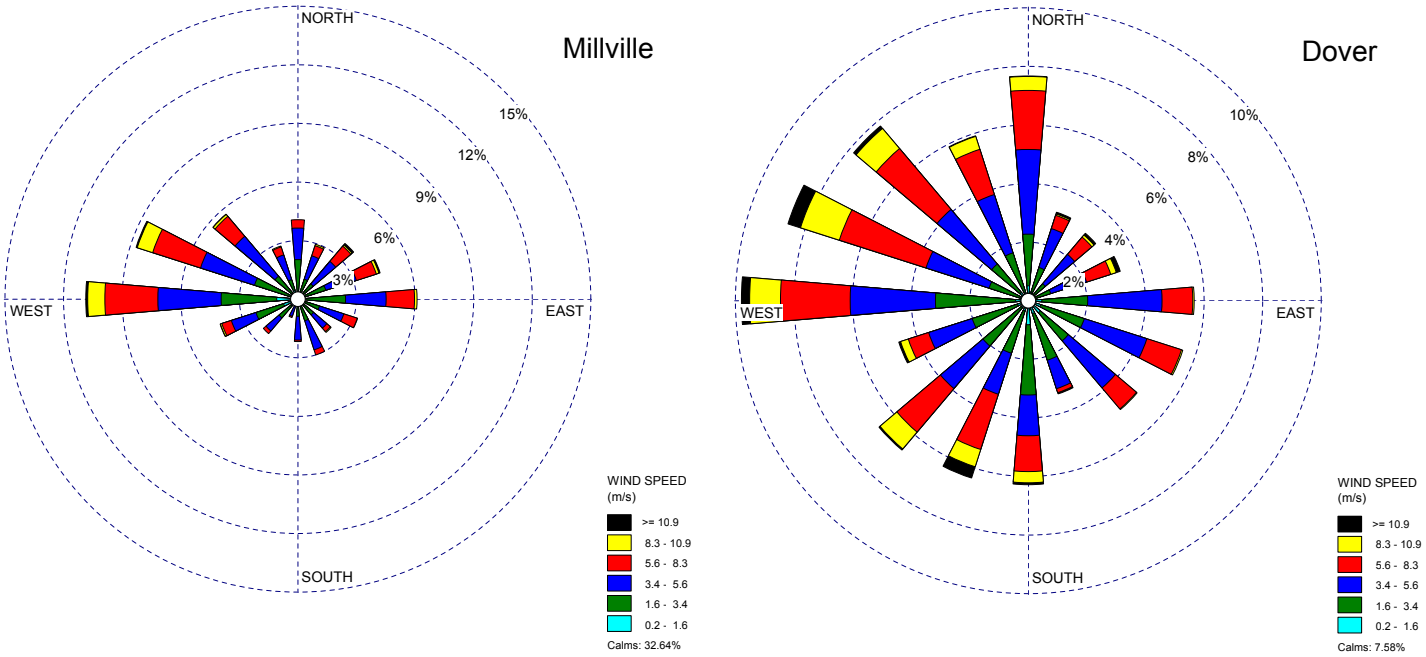
Part 2, Site Safety Analysis Report

Winter Mean Wind Roses at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008 and Long-Term at Wilmington, Millville, and Dover

FIGURE 2.3-37

Rev 0





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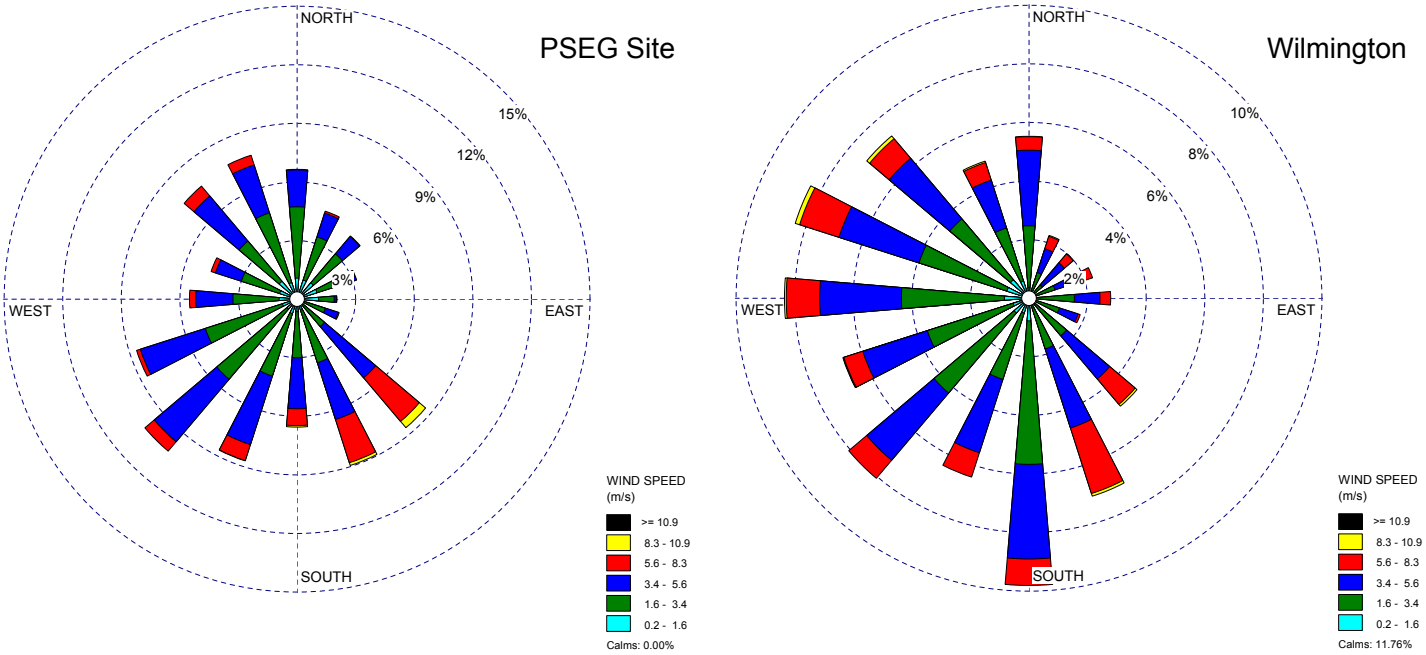
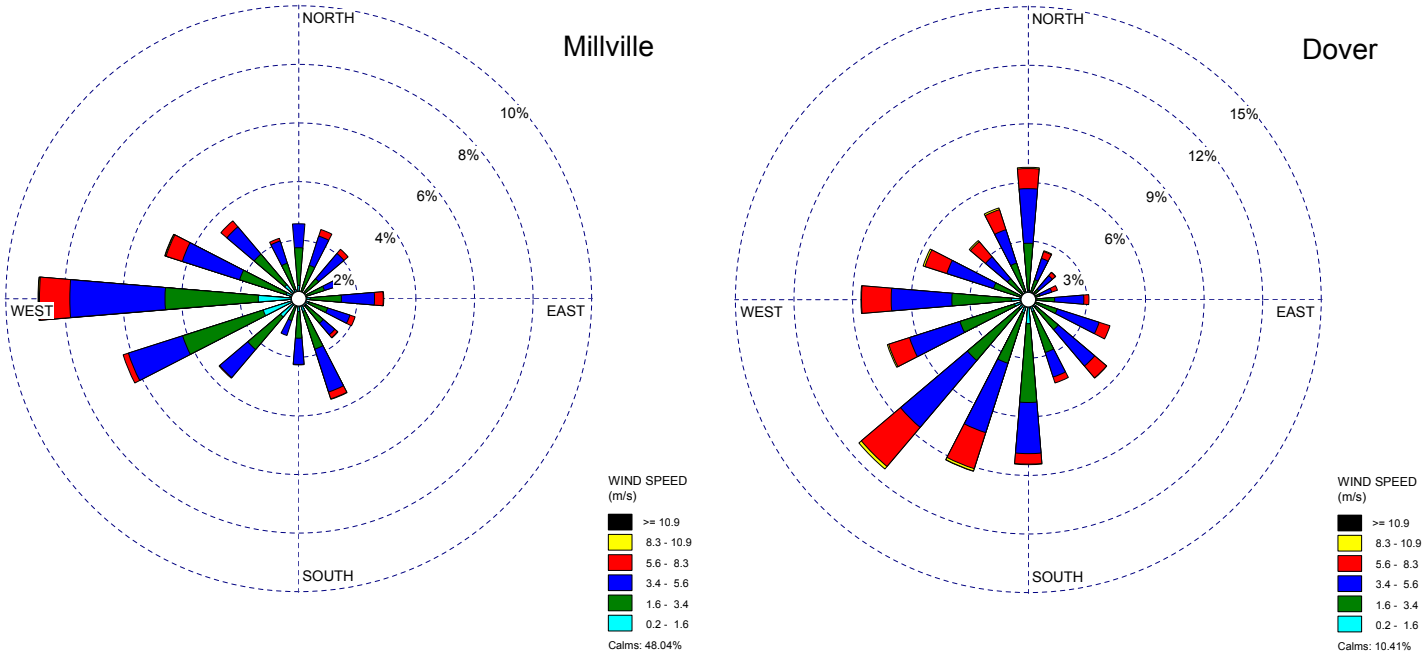
Spring Mean Wind Roses at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008 and Long-Term at Wilmington, Millville, and Dover

FIGURE 2.3-38

Rev 0





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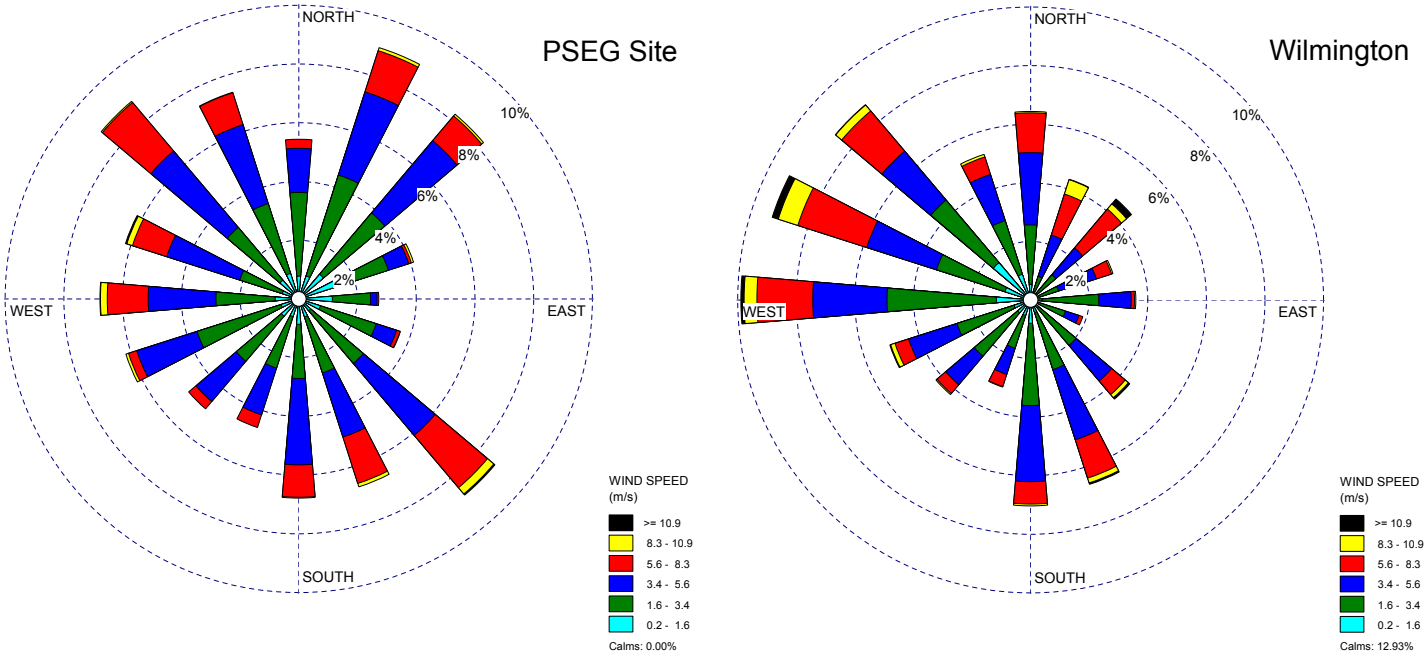
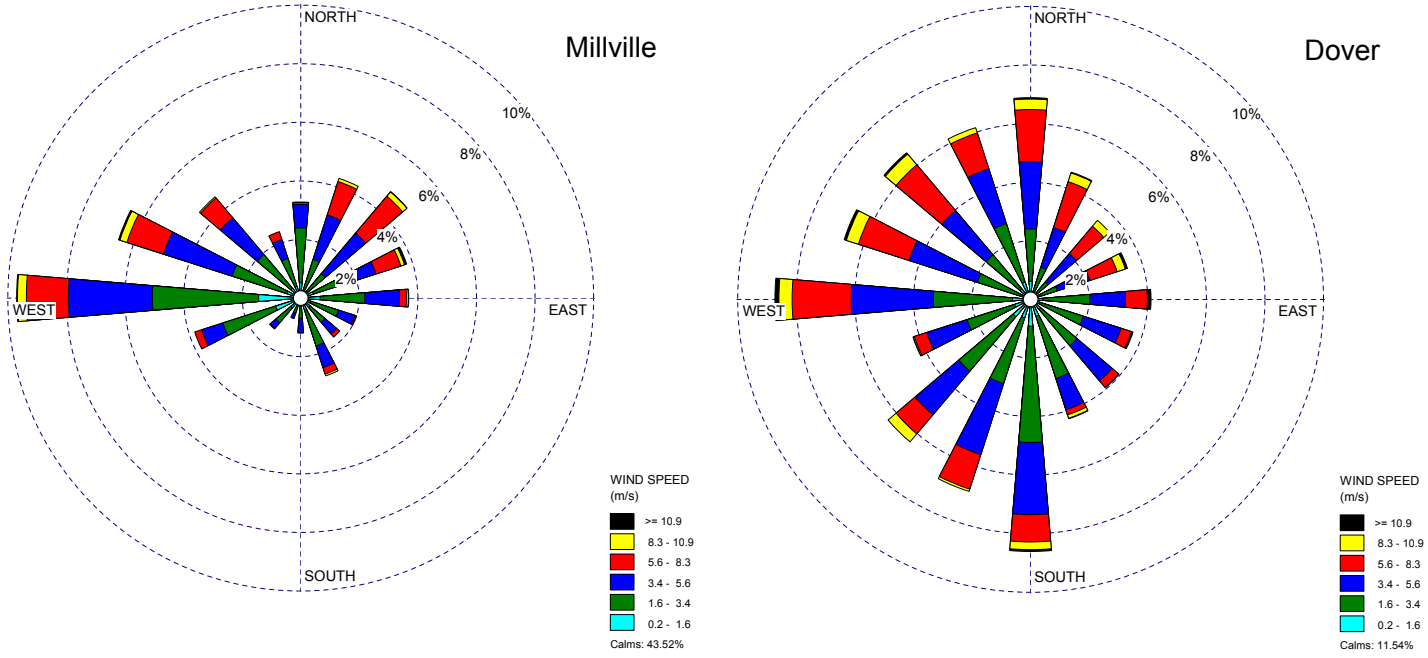
Summer Mean Wind Roses at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008 and Long-Term at Wilmington, Millville, and Dover

FIGURE 2.3-39

Rev 0





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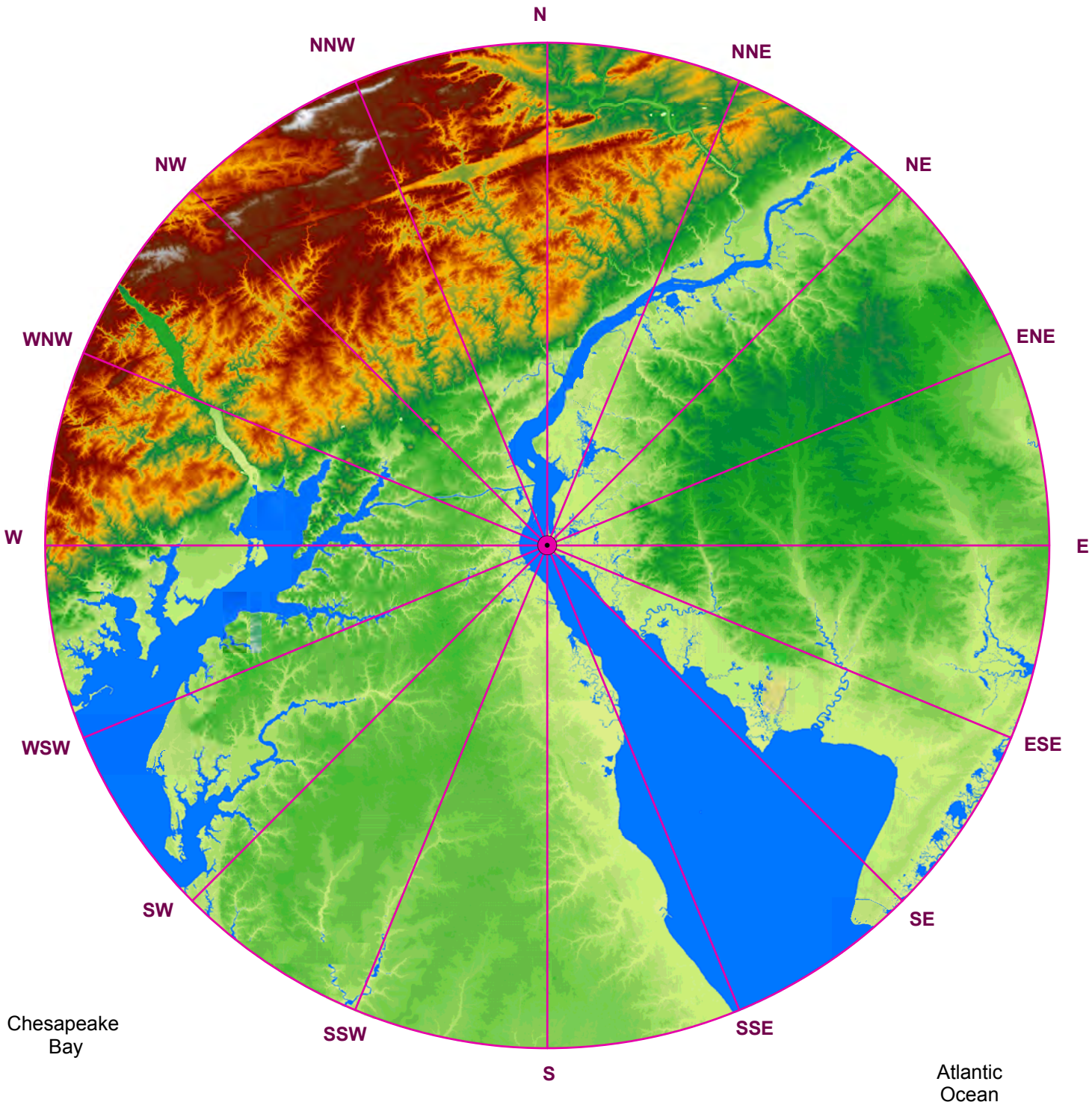
Autumn Mean Wind Roses at S/HC Primary Meteorological Tower 33 ft. Level During Three Year Period 2006-2008 and Long-Term at Wilmington, Millville, and Dover

FIGURE 2.3-40

Rev 0



Source: USGS National Elevation Dataset

LEGEND

- Site Location
- Directional Elevation Profiles

Elevation

1100 ft

0 ft

N
W E
S

0 10 20
Kilometers

0 10 20
Miles

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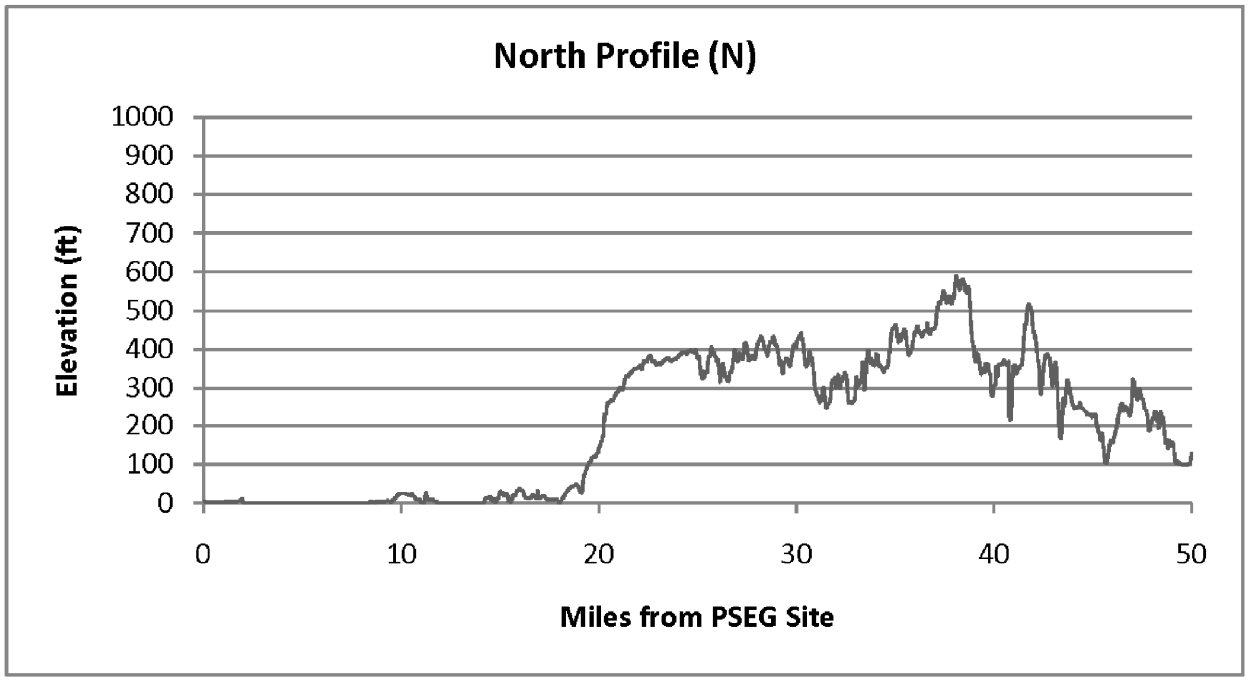
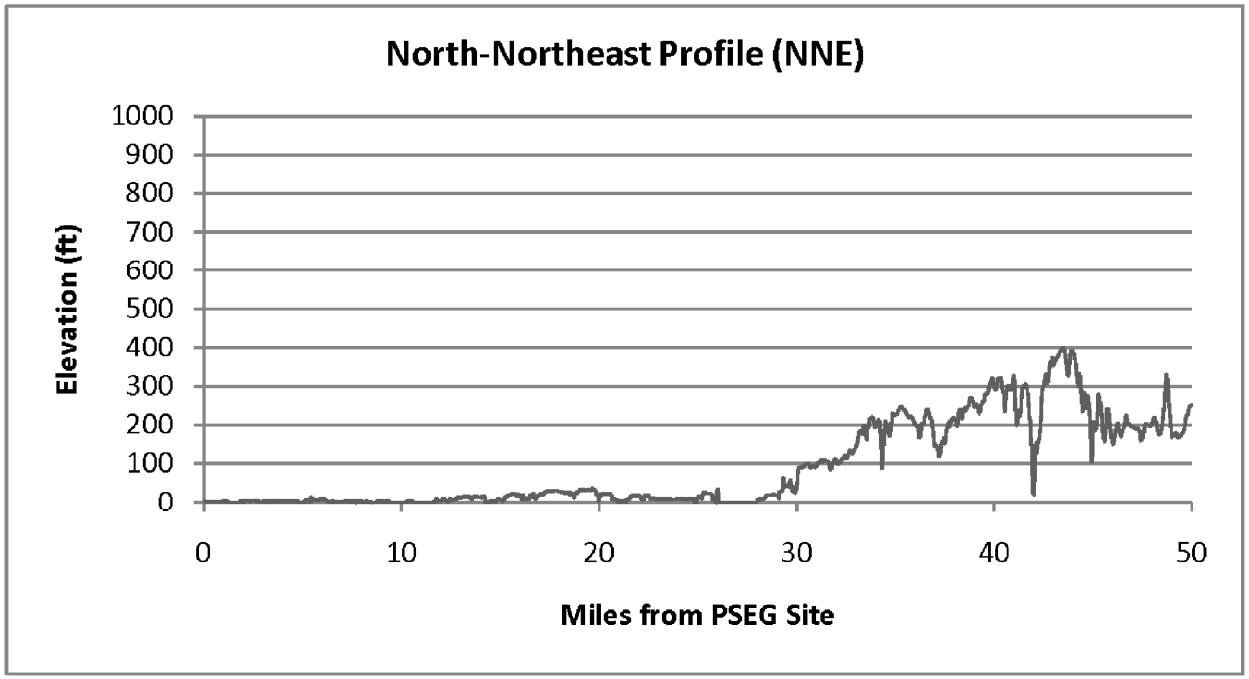
PSEG Site
Directional Elevation Profiles
within 50 Miles of PSEG Site
FIGURE 2.3-41

Rev 0





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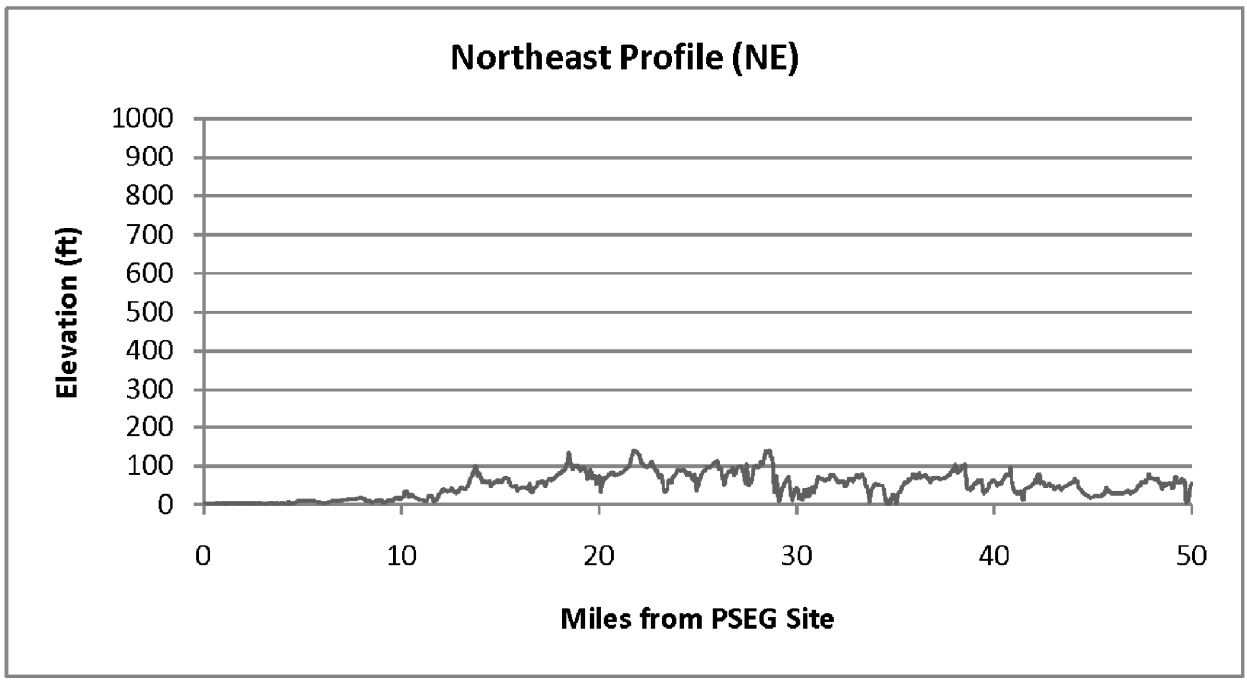
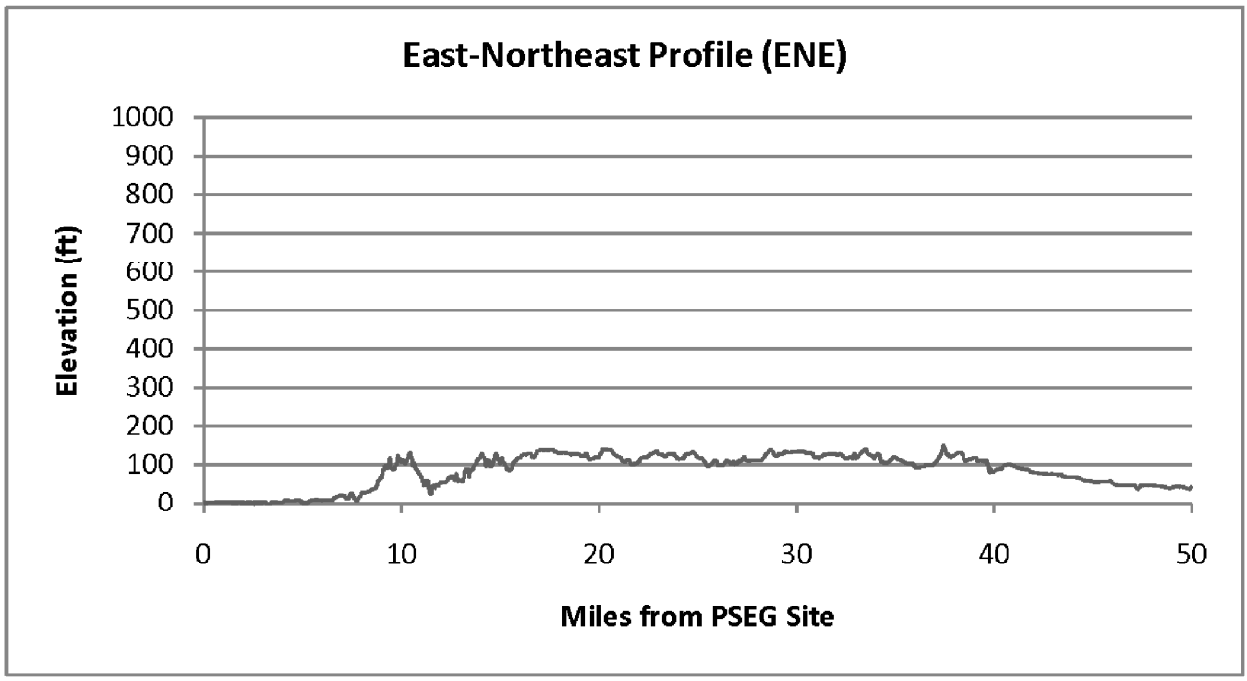
Elevation Profiles to a 50-Mile Radius for N and NNE Direction Sectors

FIGURE 2.3-42

Rev 0





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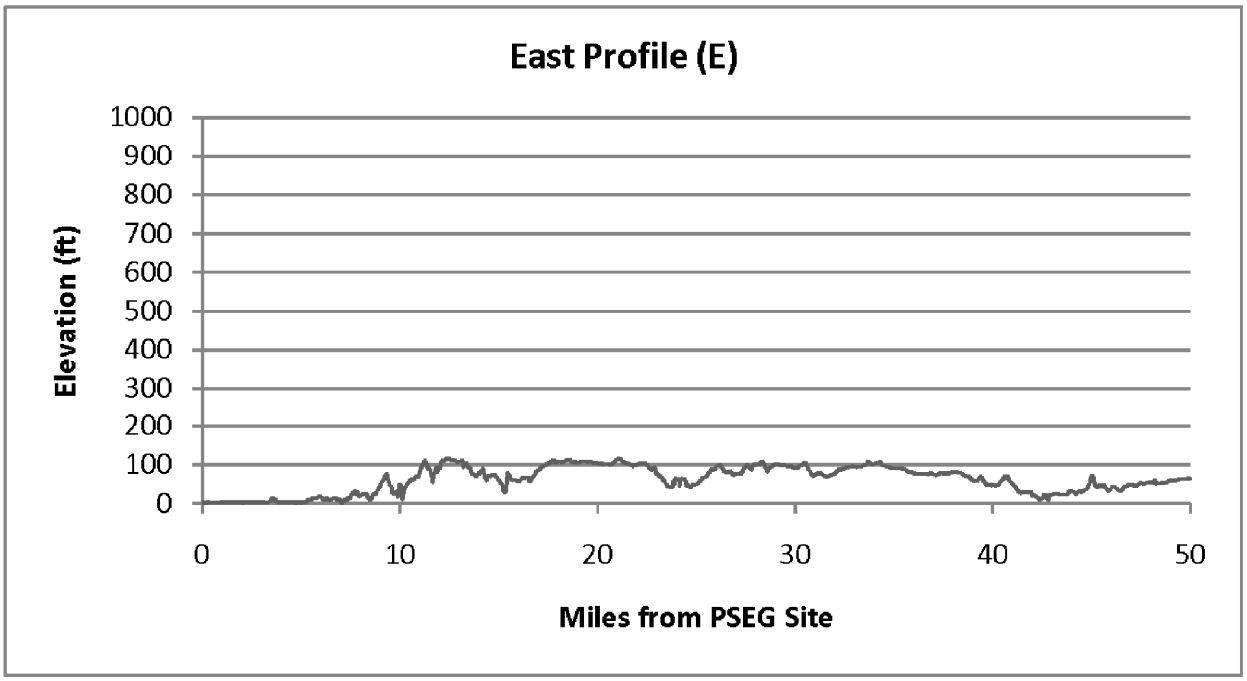
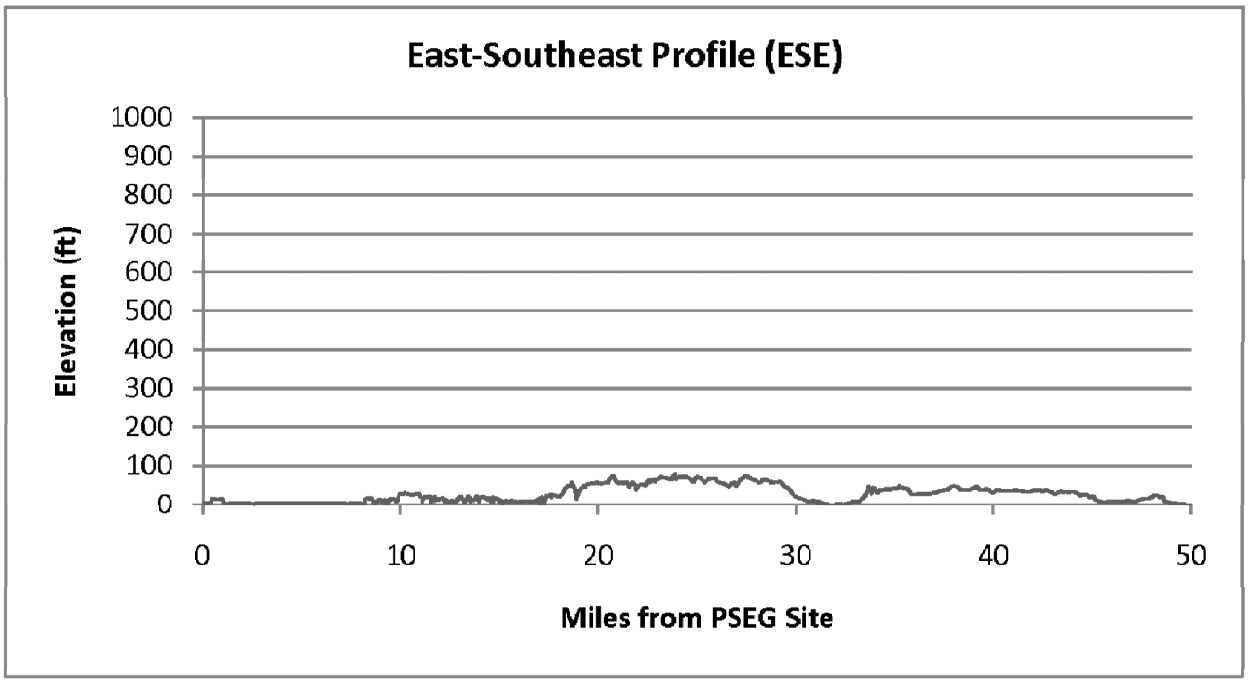
Elevation Profiles to a 50-Mile Radius for NE and ENE Direction Sectors

FIGURE 2.3-43

Rev 0





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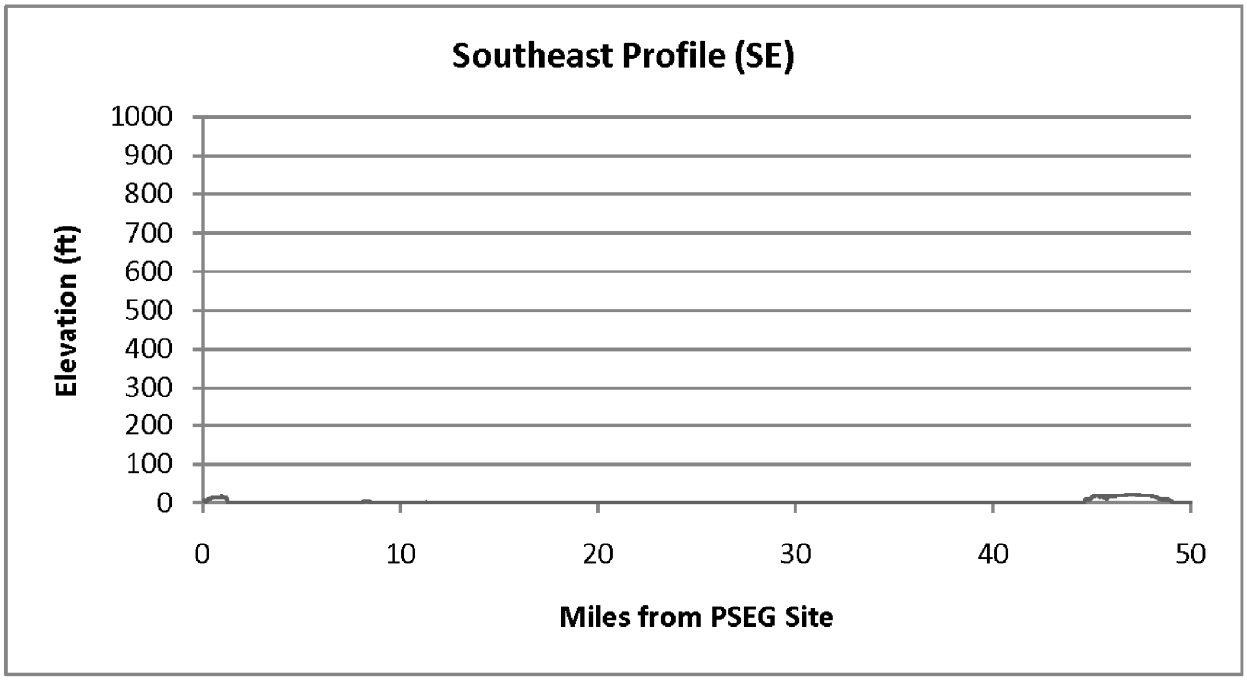
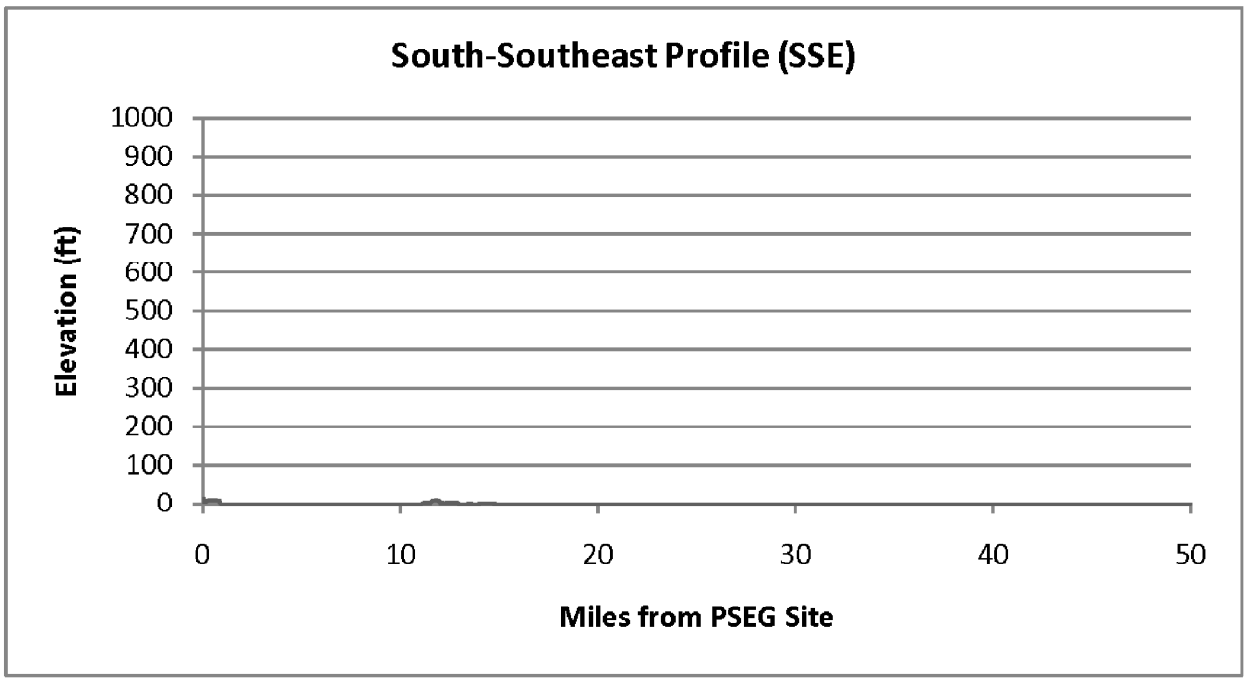
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Elevation Profiles to a 50-Mile Radius for E and ESE Direction Sectors

FIGURE 2.3-44

Rev 0





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PSEG Site ESPA
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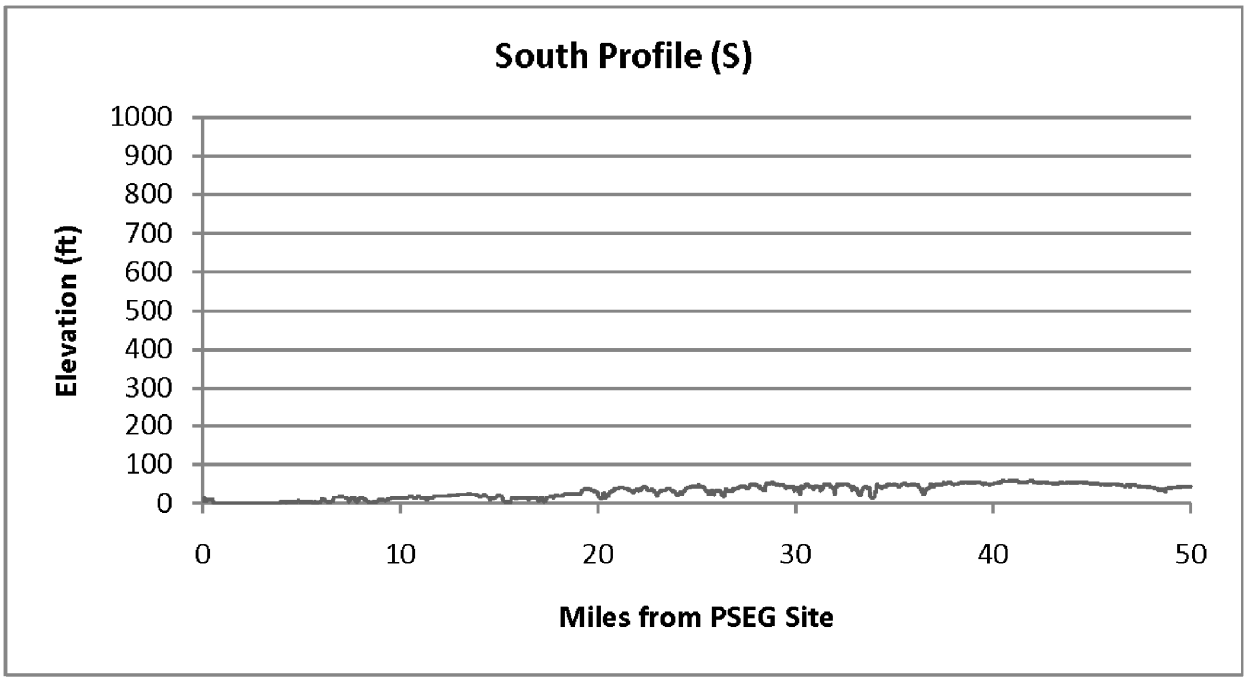
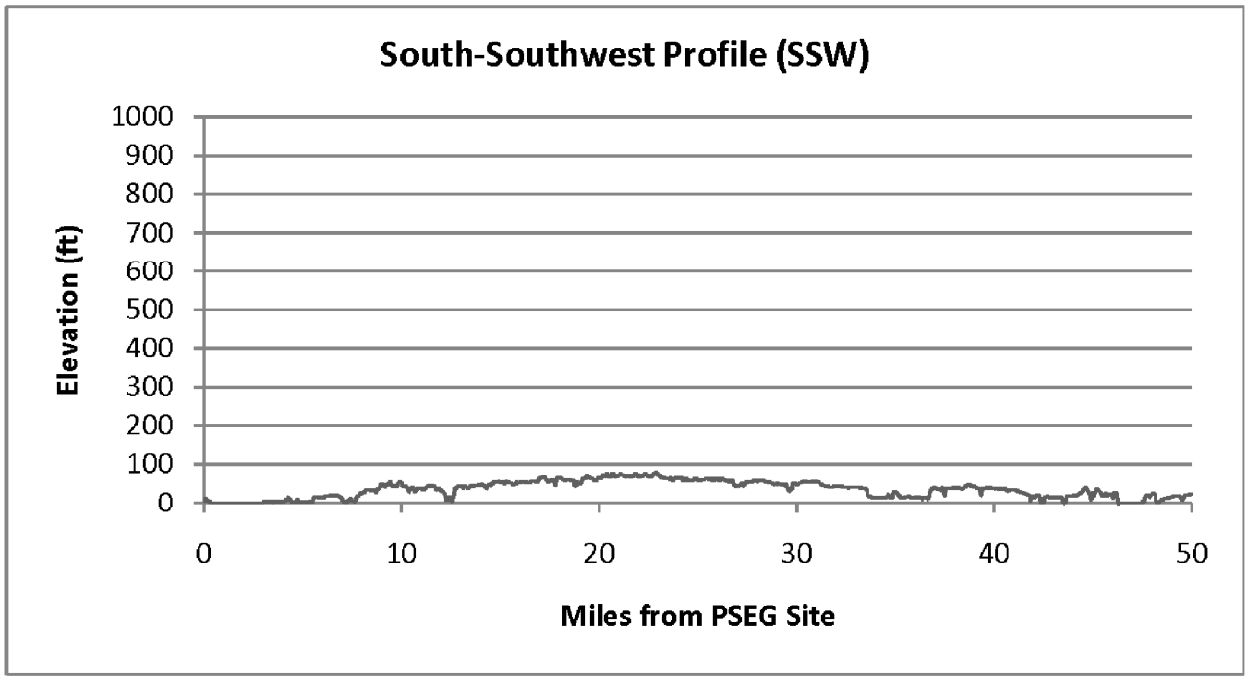
Elevation Profiles to a 50-Mile Radius for SE and SSE Direction Sectors

FIGURE 2.3-45

Rev 0





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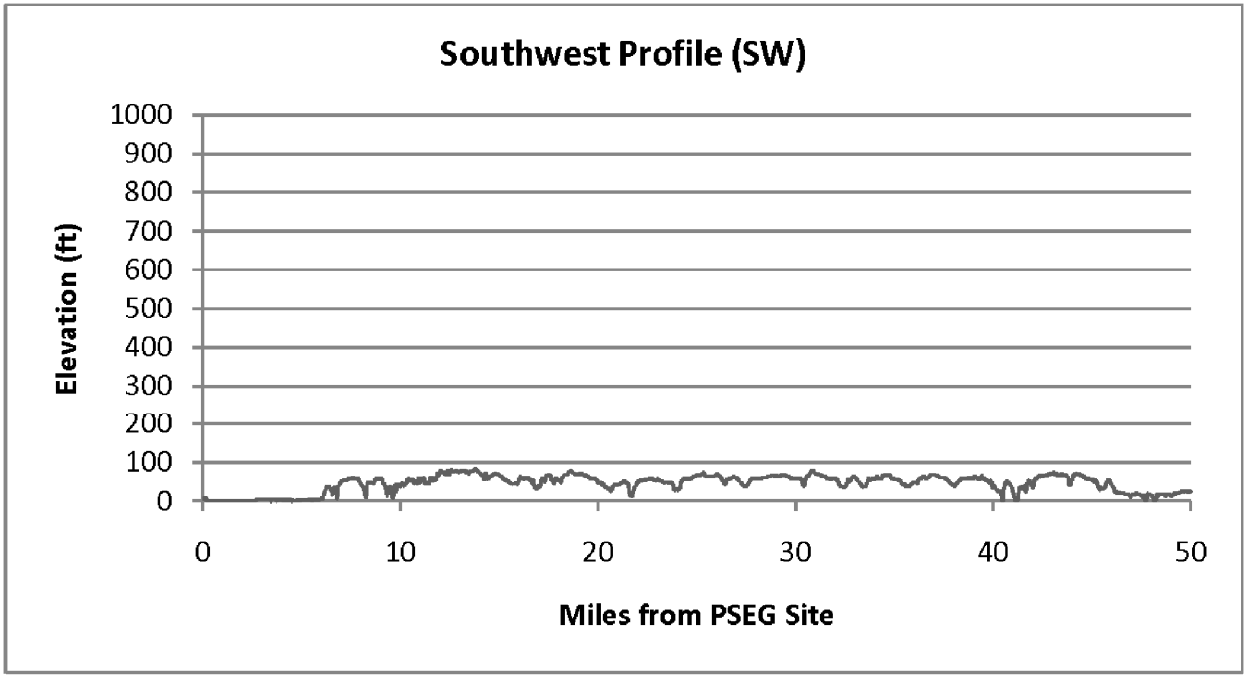
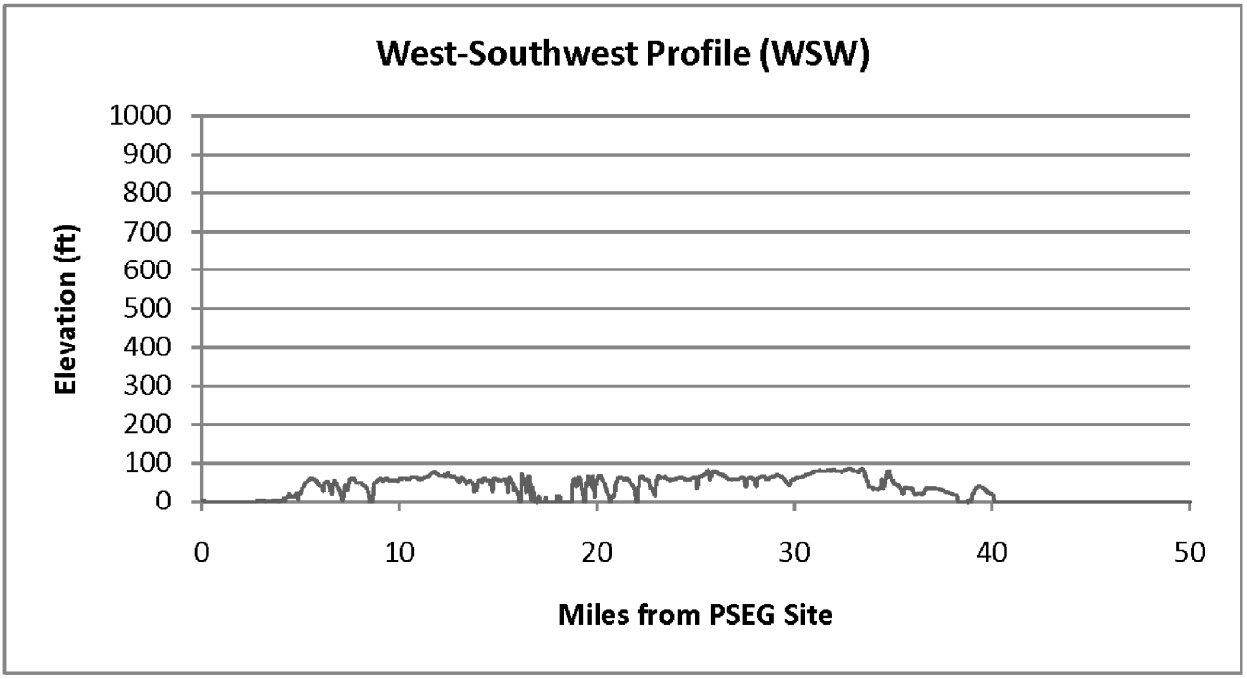
Elevation Profiles to a 50-Mile Radius for S and SSW Direction Sectors

FIGURE 2.3-46

Rev 0





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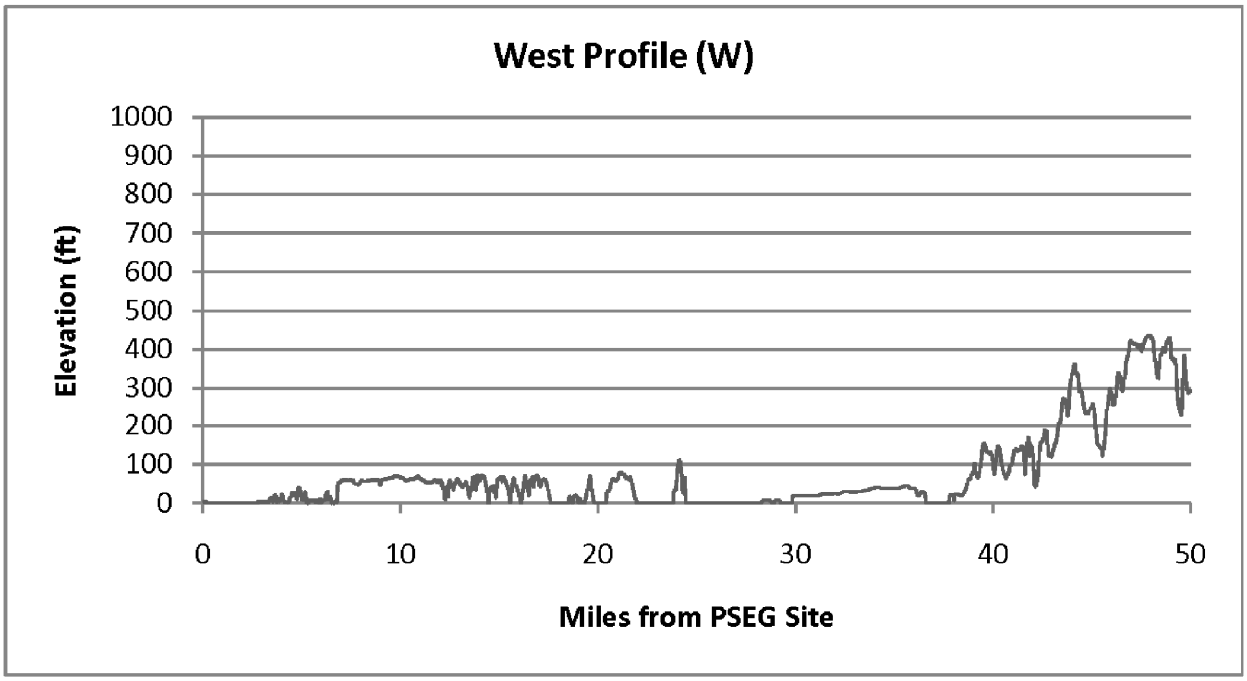
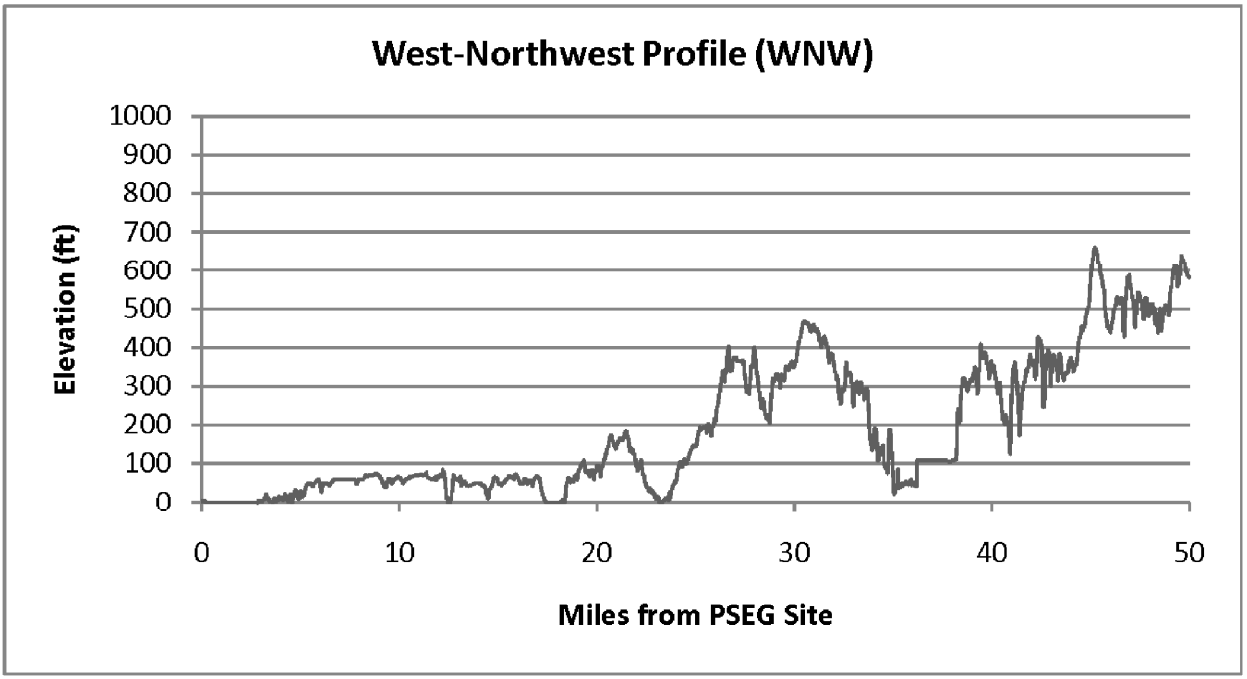
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Elevation Profiles to a 50-Mile Radius for SW and WSW Direction Sectors

FIGURE 2.3-47

Rev 0





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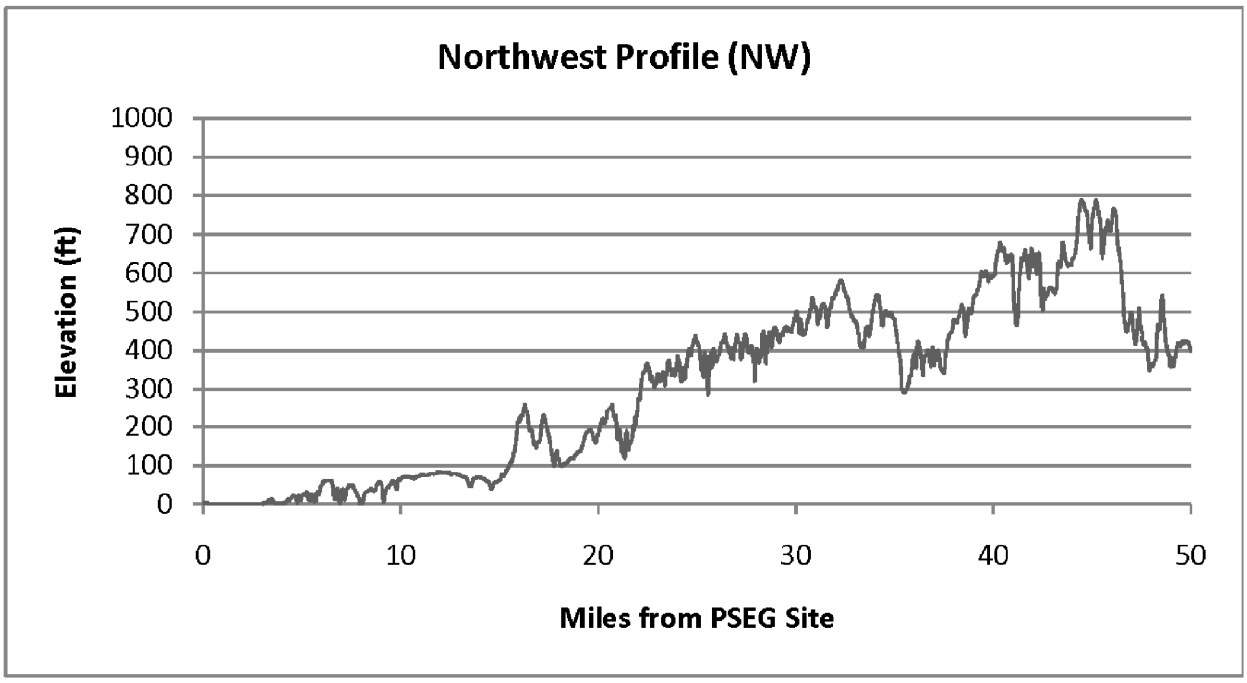
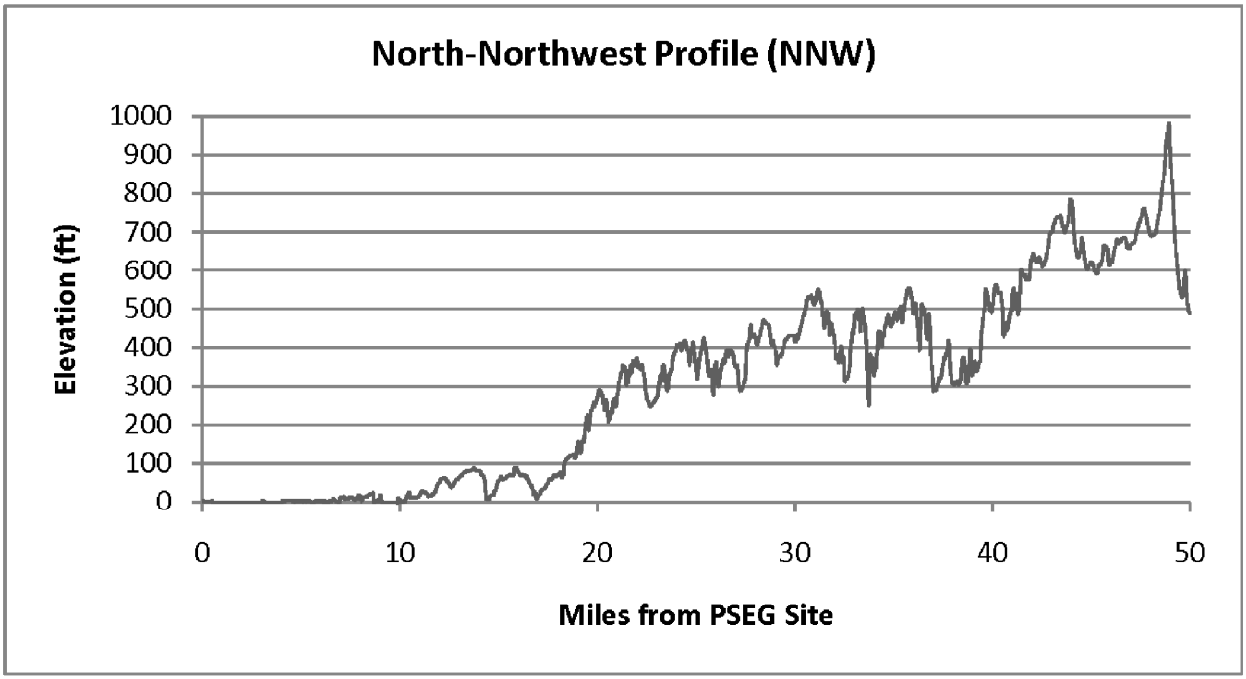
Elevation Profiles to a 50-Mile Radius for W and WNW Direction Sectors

FIGURE 2.3-48

Rev 0





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Elevation Profiles to a 50-Mile Radius for NW and NNW Direction Sectors

FIGURE 2.3-49

Rev 0

LEGEND

Approximate Location of New Plant

N
W E
S

0 1 2
Kilometers

0 1 2
Miles

Reference 2.4.1-46

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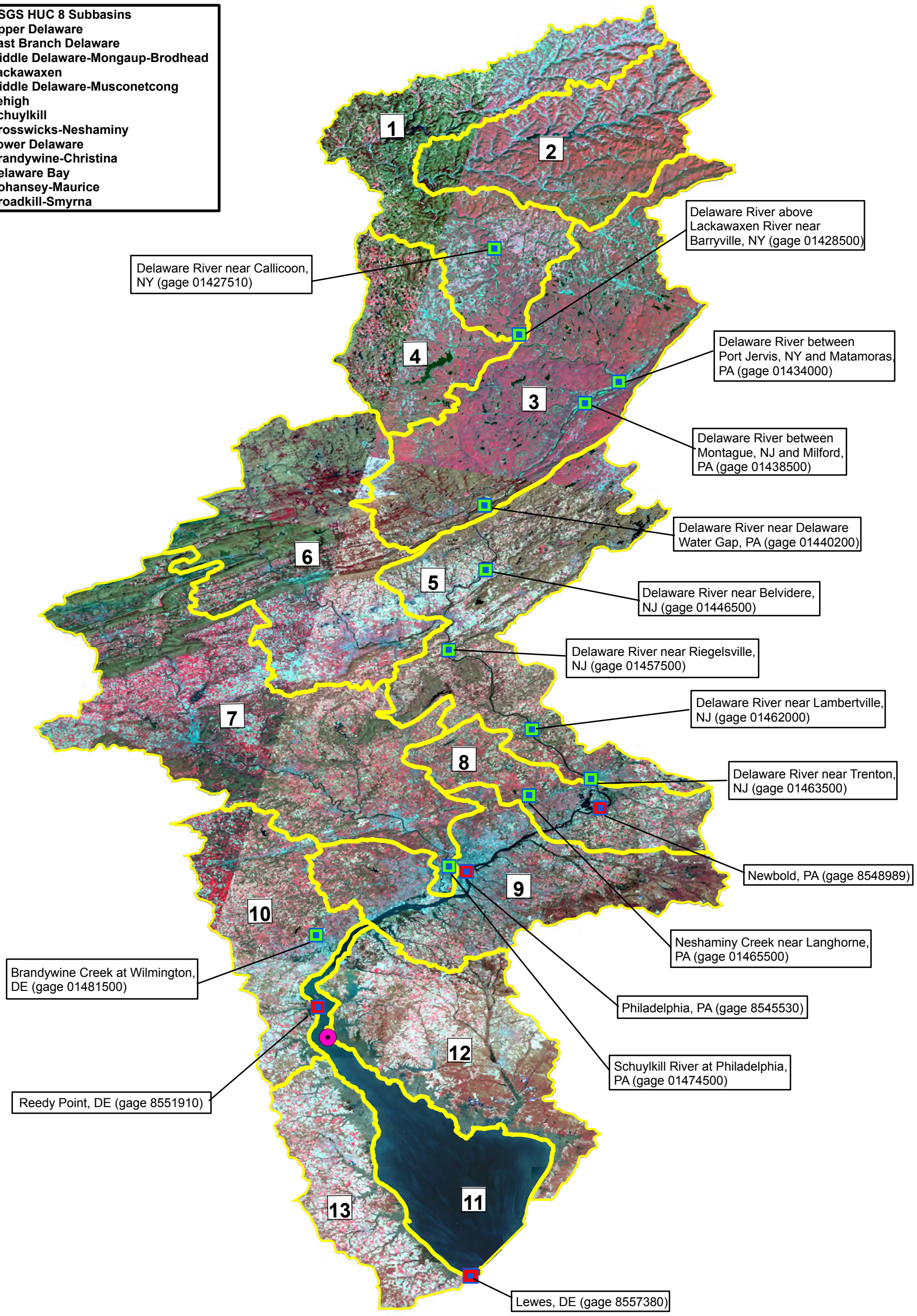
Local Area Drainage

FIGURE 2.4.1-1

Rev. 0

ID	USGS HUC 8 Subbasins
1	Upper Delaware
2	East Branch Delaware
3	Middle Delaware-Mongaup-Brodhead
4	Lackawaxen
5	Middle Delaware-Musconetcong
6	Lehigh
7	Schuylkill
8	Crosswicks-Neshaminy
9	Lower Delaware
10	Brandywine-Christina
11	Delaware Bay
12	Cohansey-Maurice
13	Broadkill-Smyrna



LEGEND

- USGS Gage Stations
- NOAA Tidal Gage Stations
- Subbasins
- PSEG Site

References 2.4.1-7, 2.4.1-8, 2.4.1-9, 2.4.1-10, 2.4.1-24, 2.4.1-25, 2.4.1-35, 2.4.1-36, 2.4.1-37, 2.4.1-38, 2.4.1-39, 2.4.1-40, 2.4.1-41, 2.4.1-42, 2.4.1-43, 2.4.1-44, 2.4.1-45

N W E S

0 20 40 Kilometers

0 20 40 Miles

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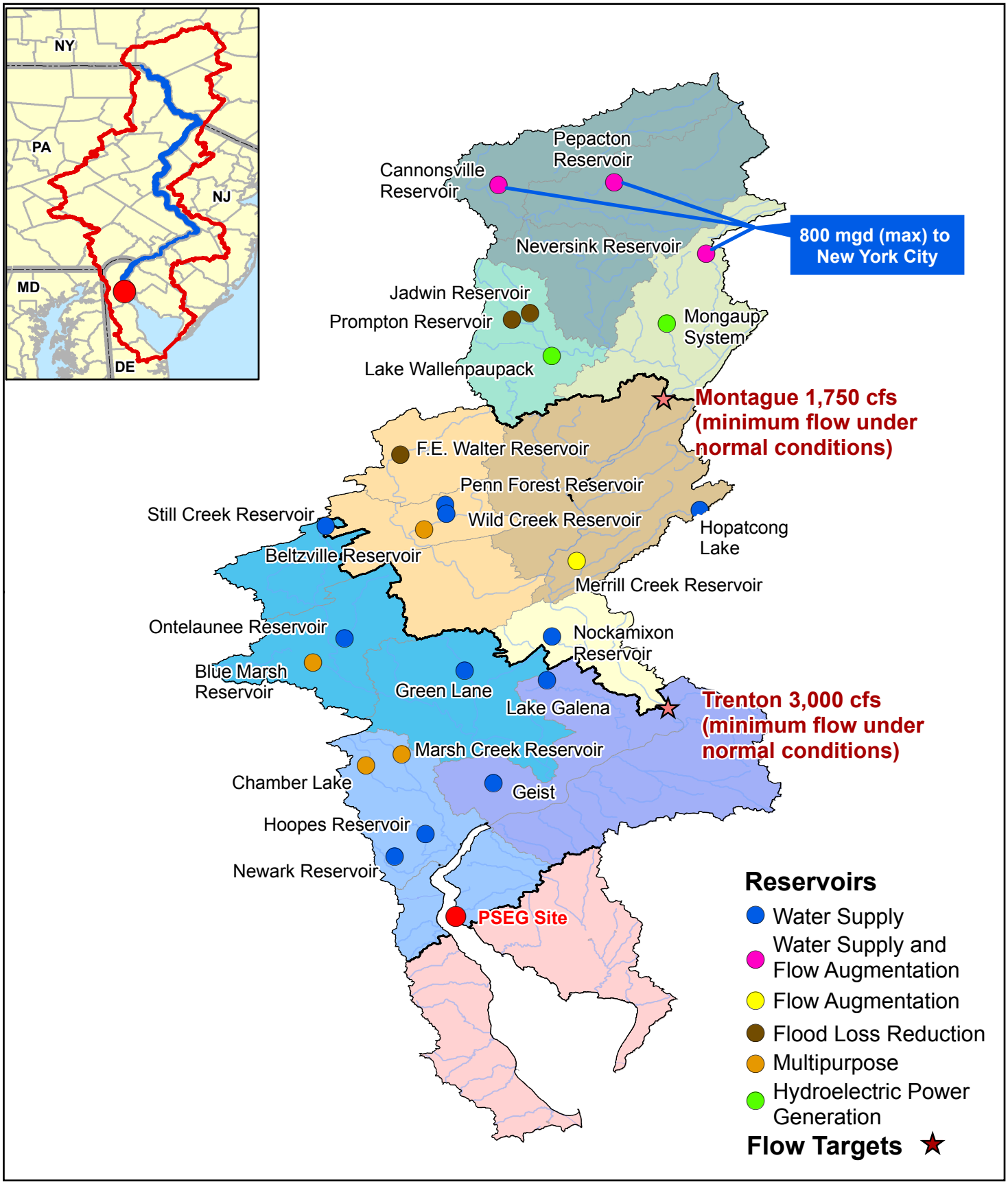
Delaware River Watersheds and Stations

FIGURE 2.4.1-2

Rev 0



N
W E
S

0 20 40
Kilometers

0 20 40
Miles

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Reservoirs of the Delaware River Basin

FIGURE 2.4.1-3

Rev 0

Reference 2.4.1-3

LEGEND

Direction of Surface Flow

Subbasin Boundaries

Contours

N
W E
S

0 425 850 FEET

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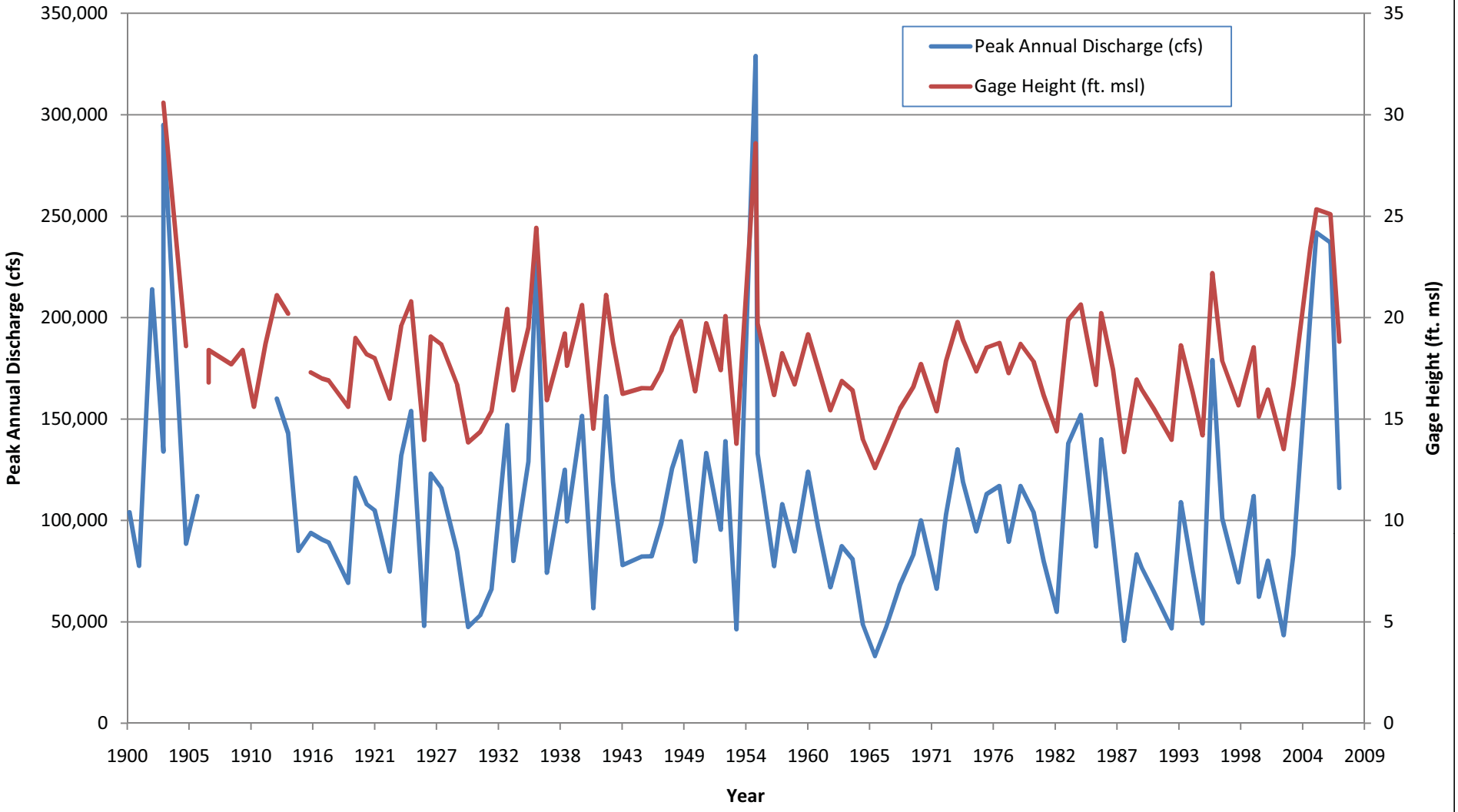
PSEG Site Drainage
FIGURE 2.4.1-4
Rev. 0



Reference 2.4.2-18
msl: mean sea level

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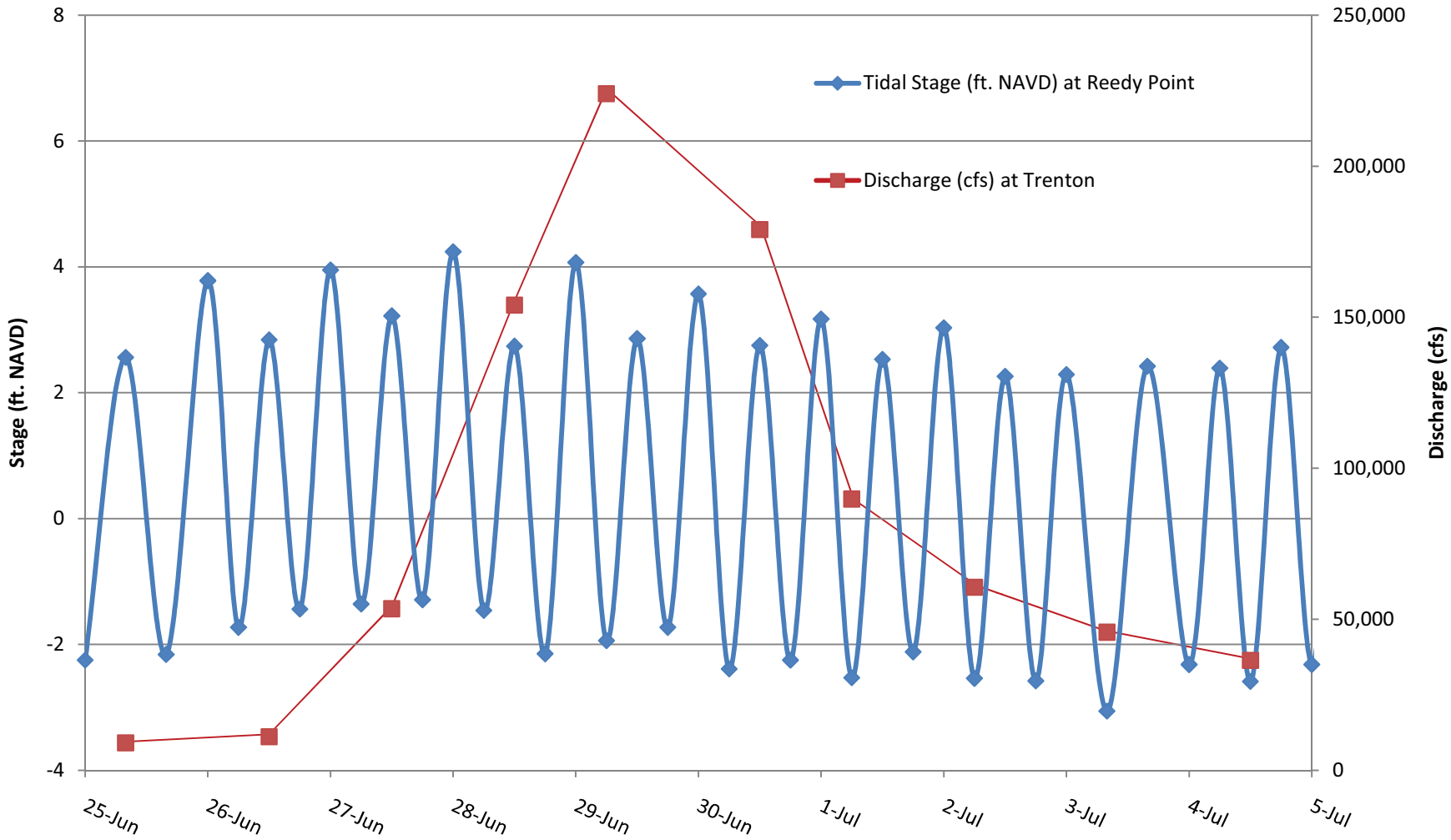
Peak Annual Discharge from the Delaware River at Trenton, NJ (01463500)

Figure 2.4.2-1

Rev. 0



References 2.4.2-10, 2.4.2-18

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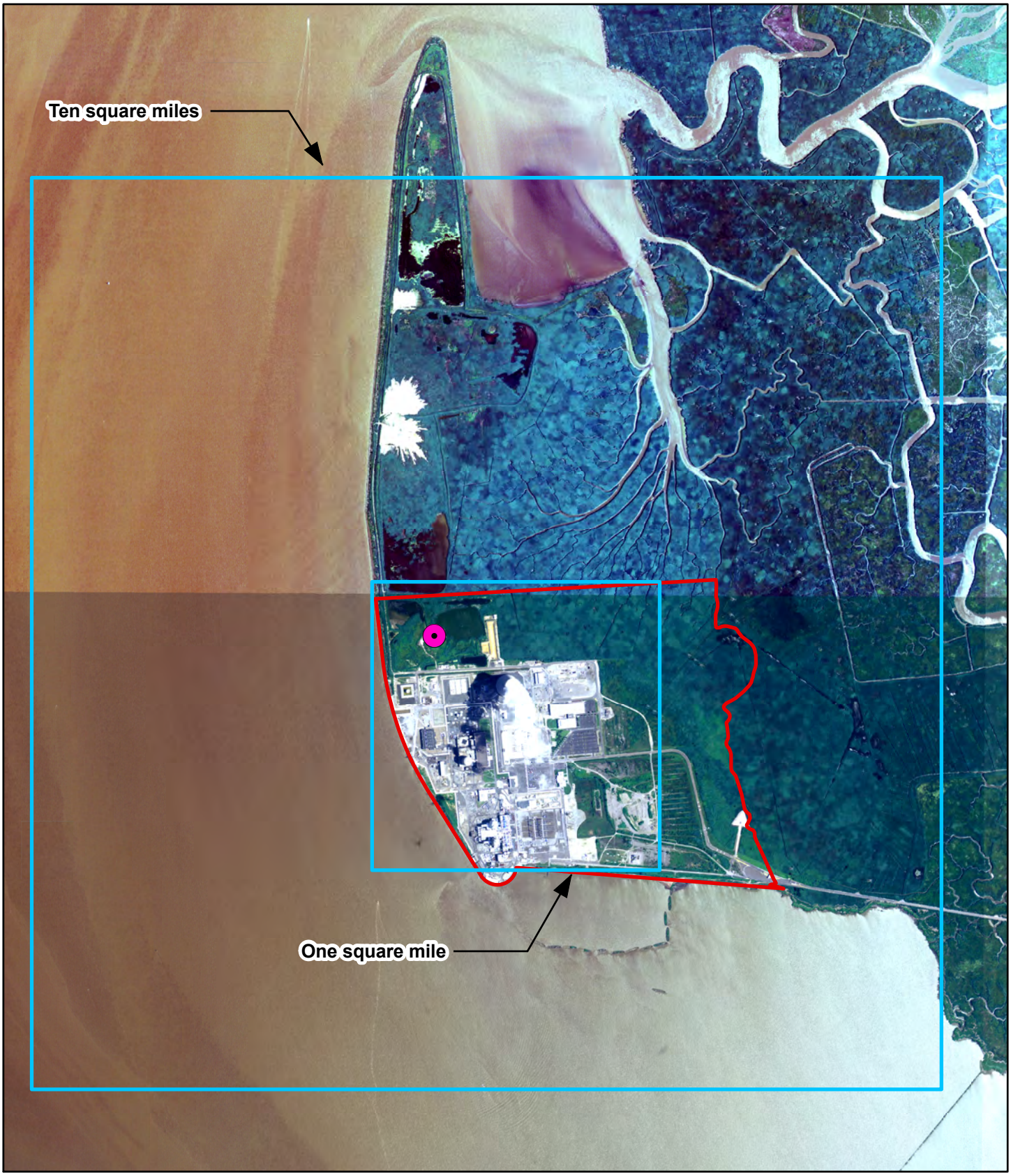
PSEG Site ESPA
Part 2, Site Safety Analysis Report

Comparison of Discharge at Trenton with River Stage at Reedy Point for June 2006 Event

Figure 2.4.2-2

Rev. 0



Legend

- PMP Areal Extents
- New Plant
- PSEG Site

N
W E
S

0 0.5 1
Kilometers
0 0.25 0.5
Miles

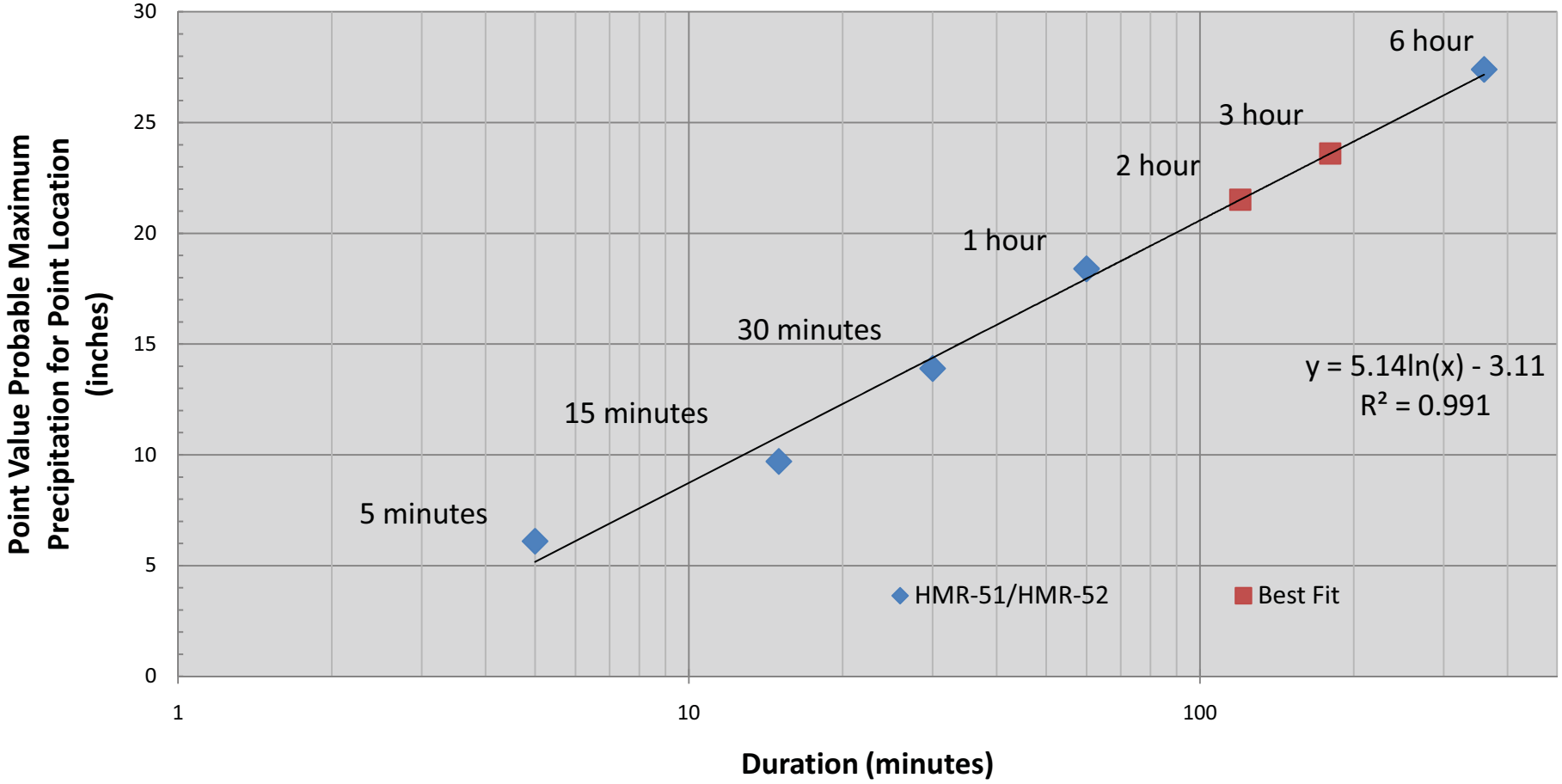
PSEG Power, LLC

PSEG Site ESPA
Part 2, Site Safety Analysis Report

Drainage Basin Sizes
for PMP Determination

Figure 2.4.2-3

Rev. 0



References 2.4.2-8, 2.4.2-9

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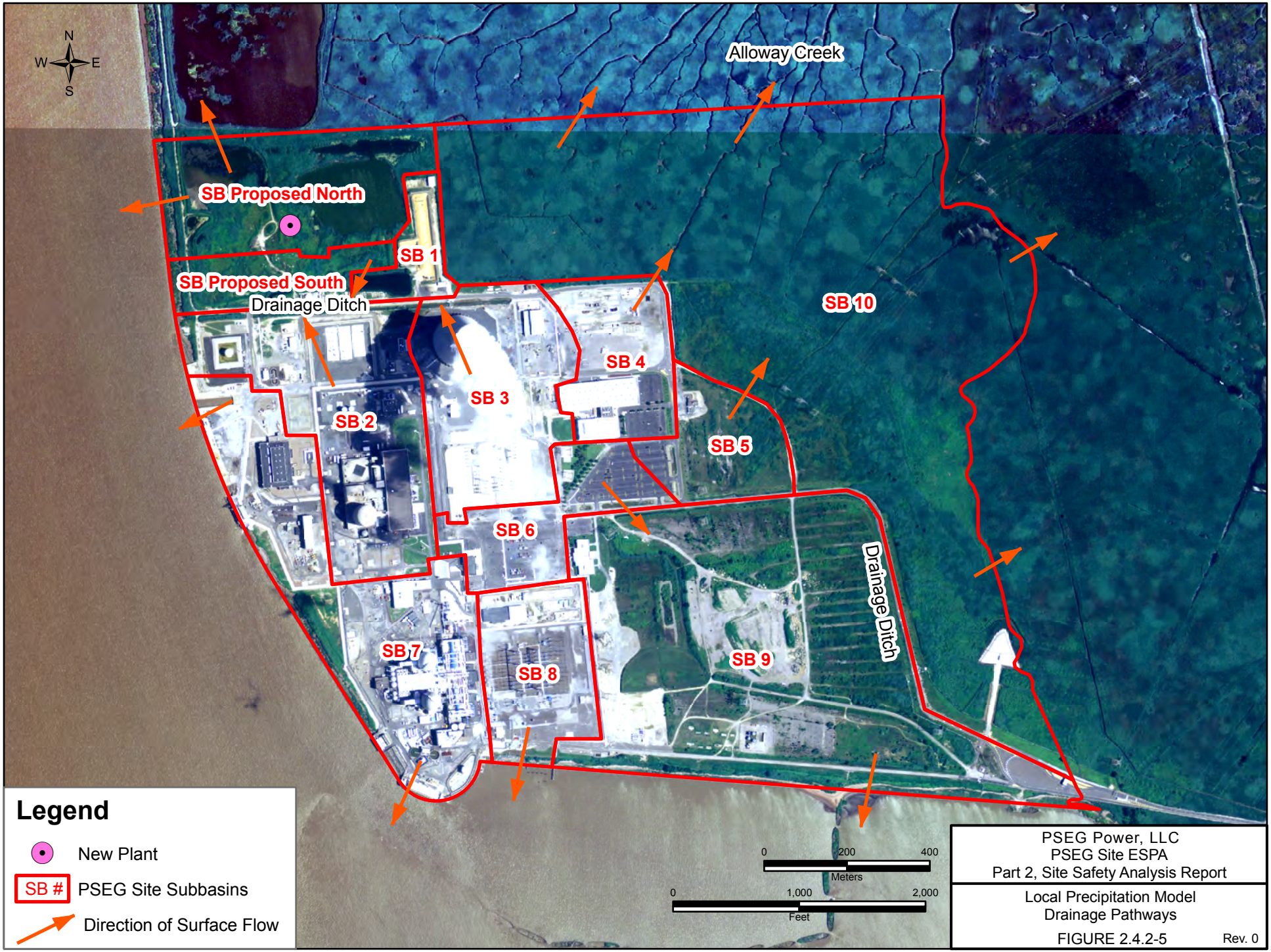
Probable Maximum Precipitation Values as a Function of Duration of Point Rainfall at the PSEG Site

Figure 2.4.2-4

Rev. 0



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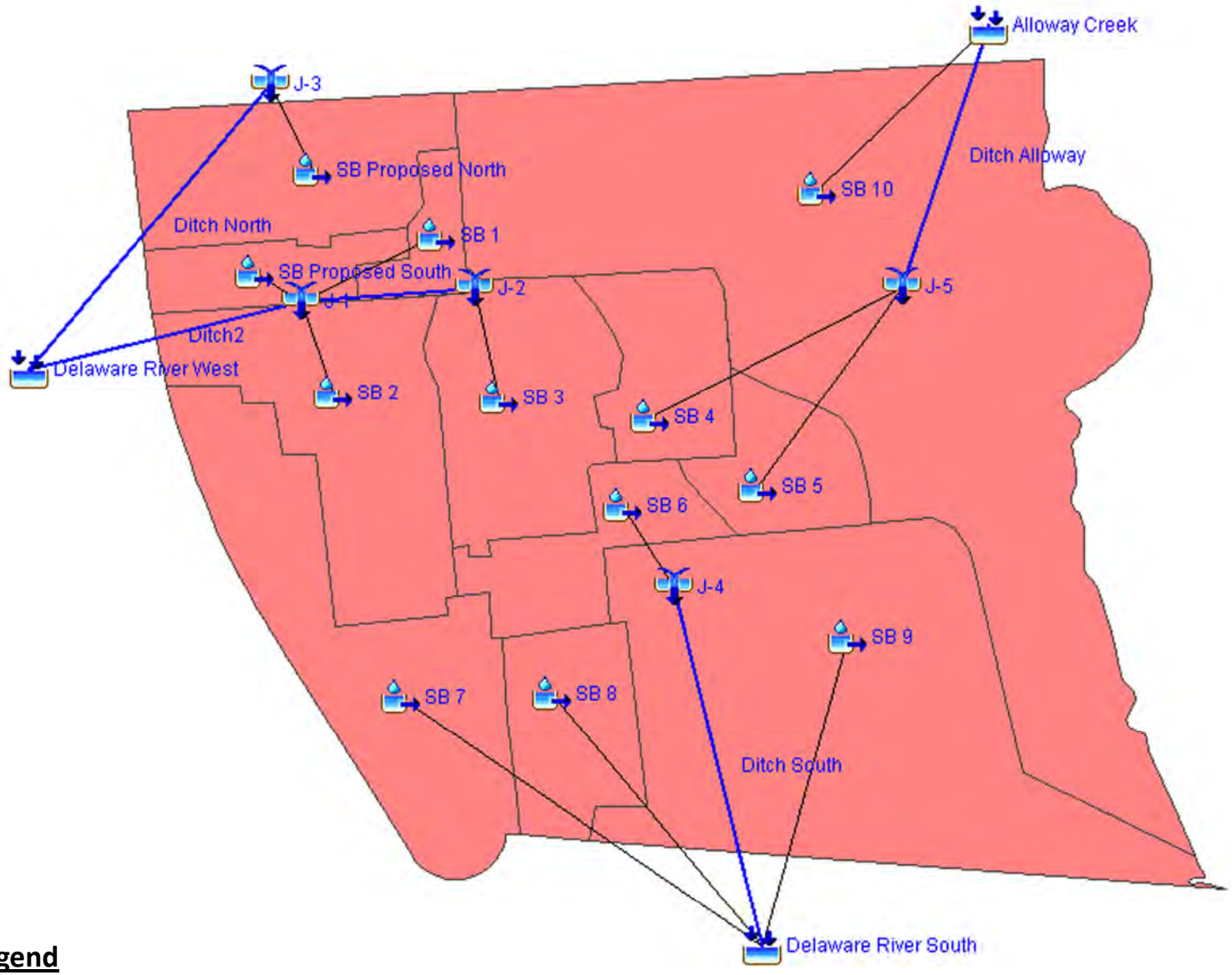
Local Precipitation Model
Drainage Pathways

FIGURE 2.4.2-5 Rev. 0



Legend

J: Junction

SB: Subbasin

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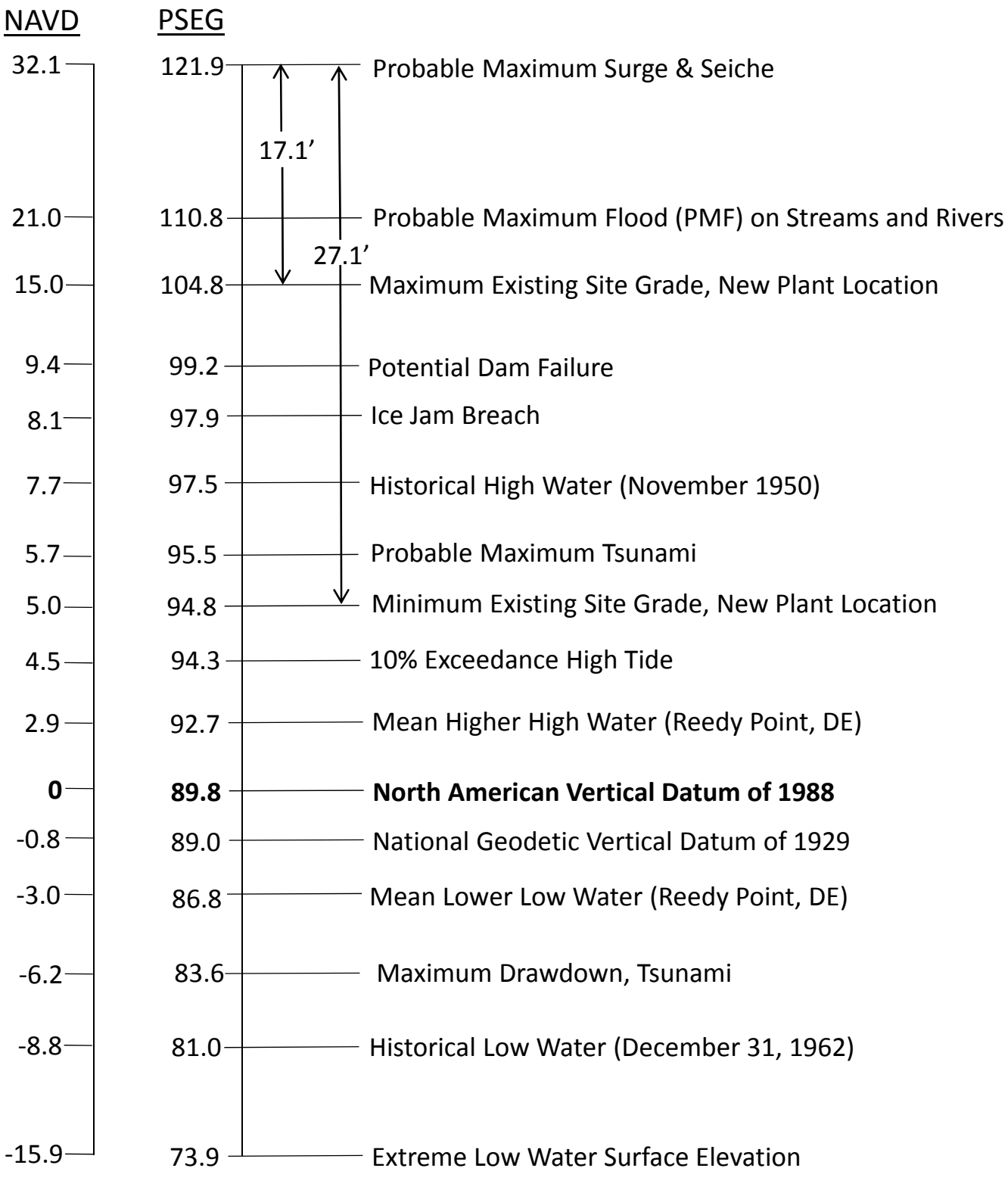
HEC-HMS Link-Node Network

FIGURE 2.4.2.6 Rev. 0



Not to Scale

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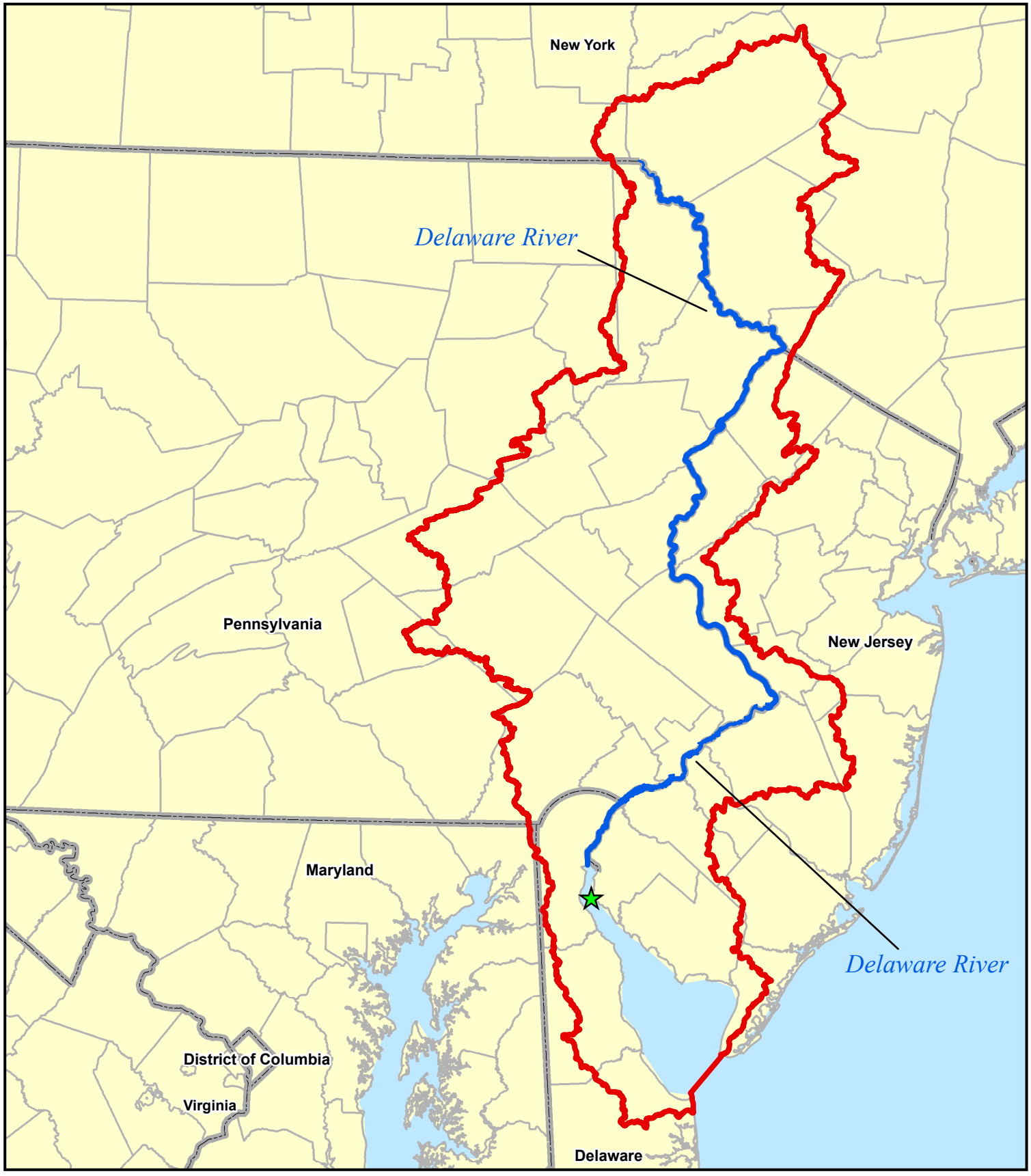
Datum and Water Level Relationship

FIGURE 2.4.2-7 Rev. 2



Legend

- PSEG Site
- State Boundary
- Delaware River Basin
- County Boundary

N
W E
S

0 30 60
Kilometers

0 30 60
Miles

Reference 2.4.3-24

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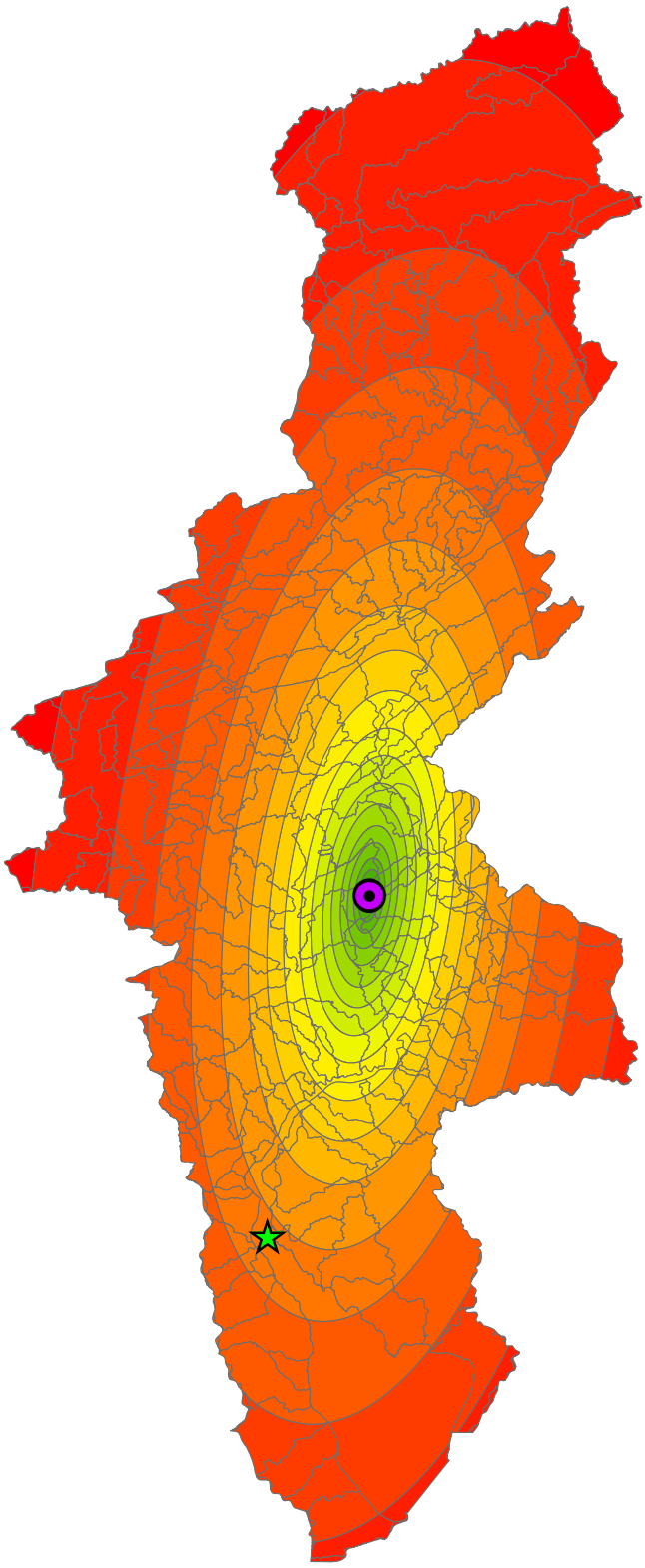
Delaware River Basin Watershed

Figure 2.4.3-1

Rev. 0



LEGEND

A - 23.4	E - 20.1	I - 17.1	M - 14.9	Q - 8.6
B - 23.0	F - 19.2	J - 16.5	N - 14.1	R - 2.4
C - 22.1	G - 18.4	K - 15.9	O - 13.4	
D - 21.1	H - 17.8	L - 15.6	P - 12.7	

Units = Inches

Reference 2.4.3-9

Center of Storm

PSEG Site

N
W E
S

0 20 40
Kilometers

0 20 40
Miles

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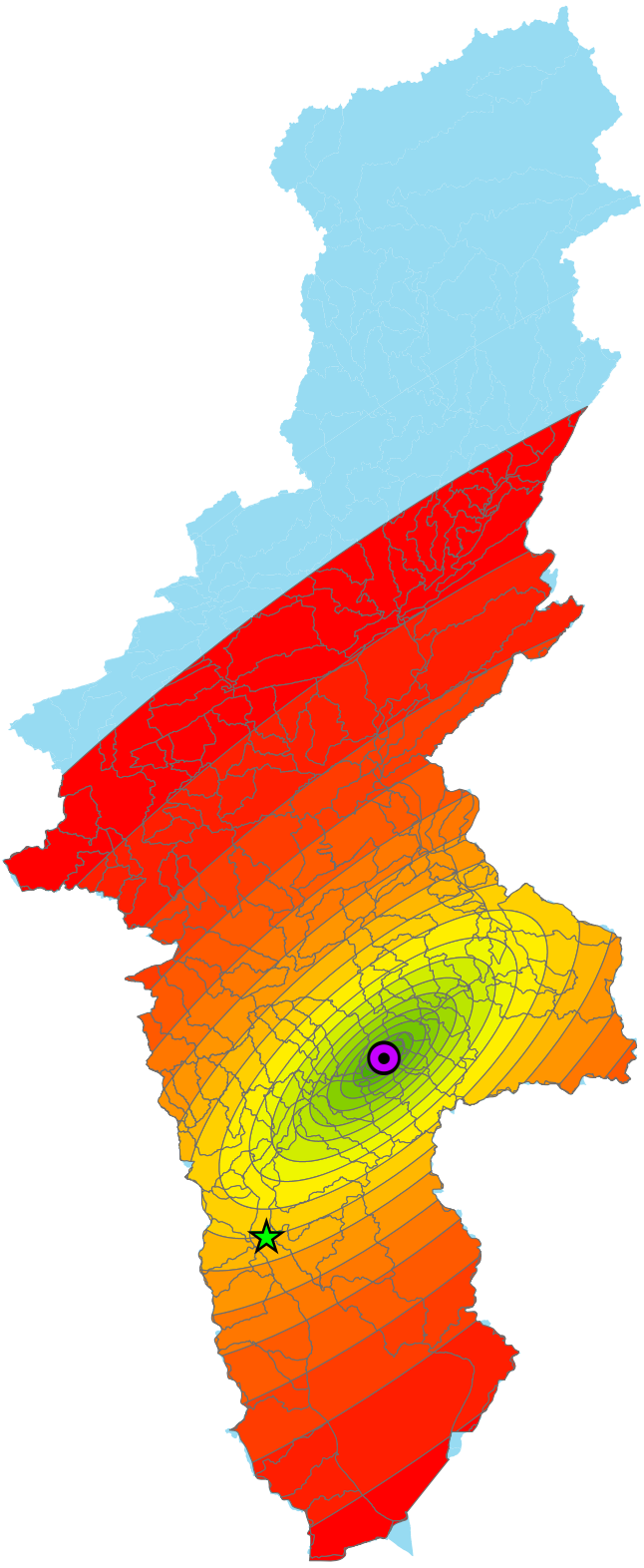
PMP Isohyetals Centered over Delaware River Basin near Doylestown, PA

FIGURE 2.4.3-2 Rev. 0



LEGEND

A - 33.08	E - 28.23	I - 23.74	M - 13.48	Q - 0.44
B - 32.39	F - 27.04	J - 22.73	N - 9.51	R - 0.0
C - 31.02	G - 25.95	K - 21.67	O - 6.22	
D -29.62	H - 24.80	L - 18.46	P - 2.73	

Units = Inches

Reference 2.4.3-9

Center of Storm

PSEG Site

N W E S

0 20 40 Kilometers

0 20 40 Miles

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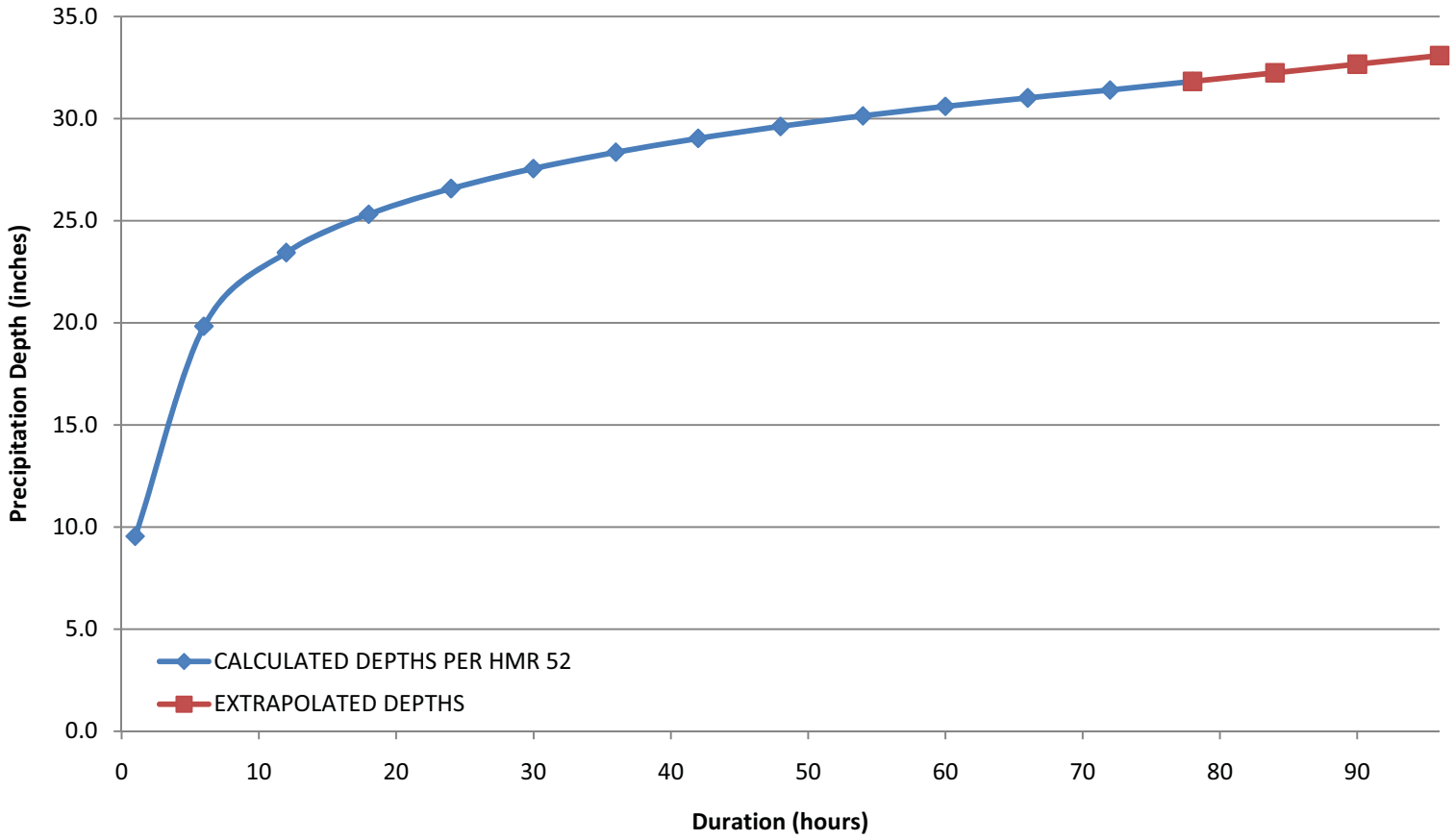
PMP Isohyetals Centered over Delaware River Basin near Philadelphia, PA

FIGURE 2.4.3-3 Rev. 0



Reference 2.4.3-9

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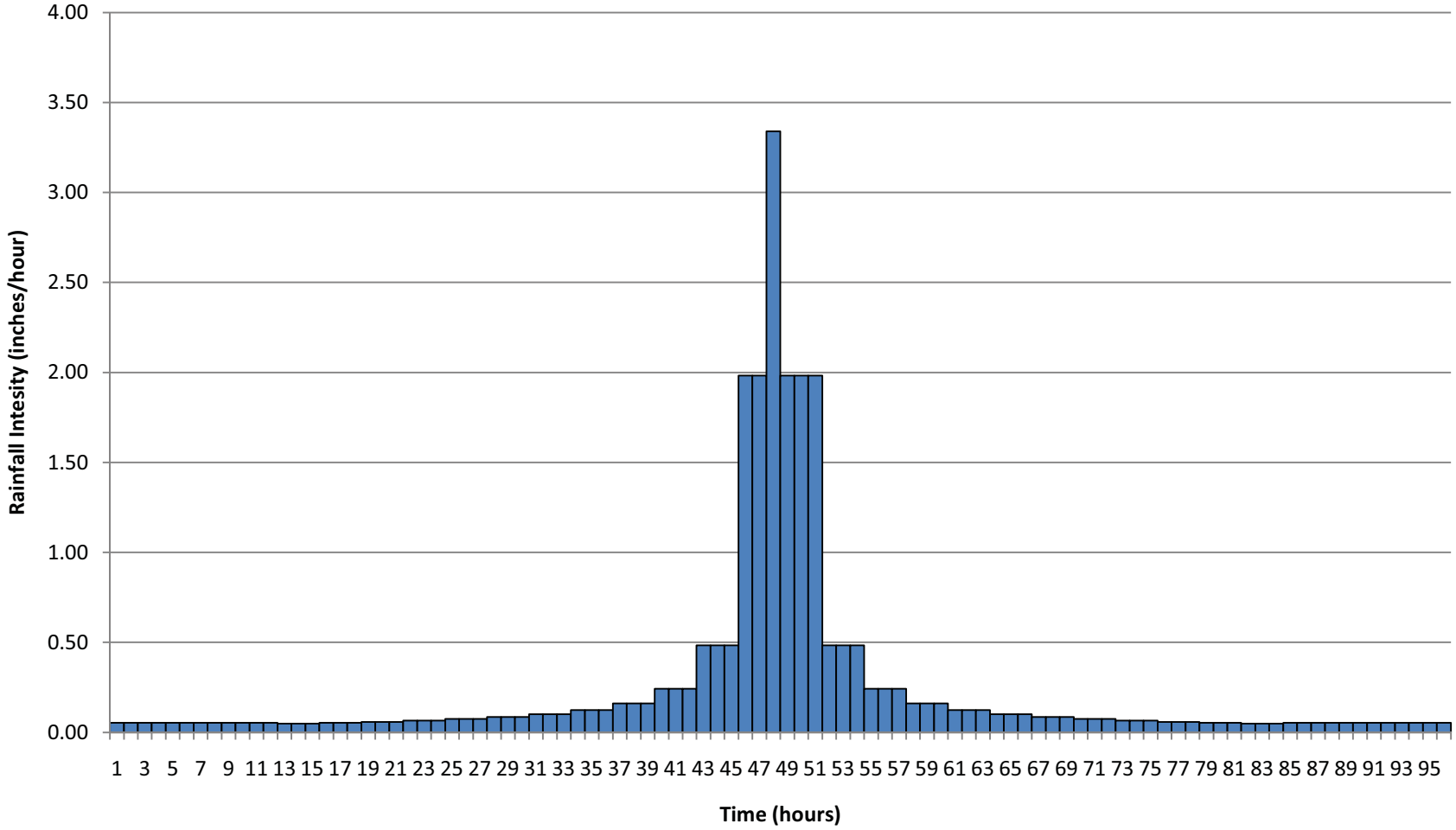
Estimation of the 96-hr. PMP Depths of Isohyetal A Centered over the Delaware River Basin near Philadelphia, PA

FIGURE 2.4.3-4

Rev. 0



Reference 2.4.3-9

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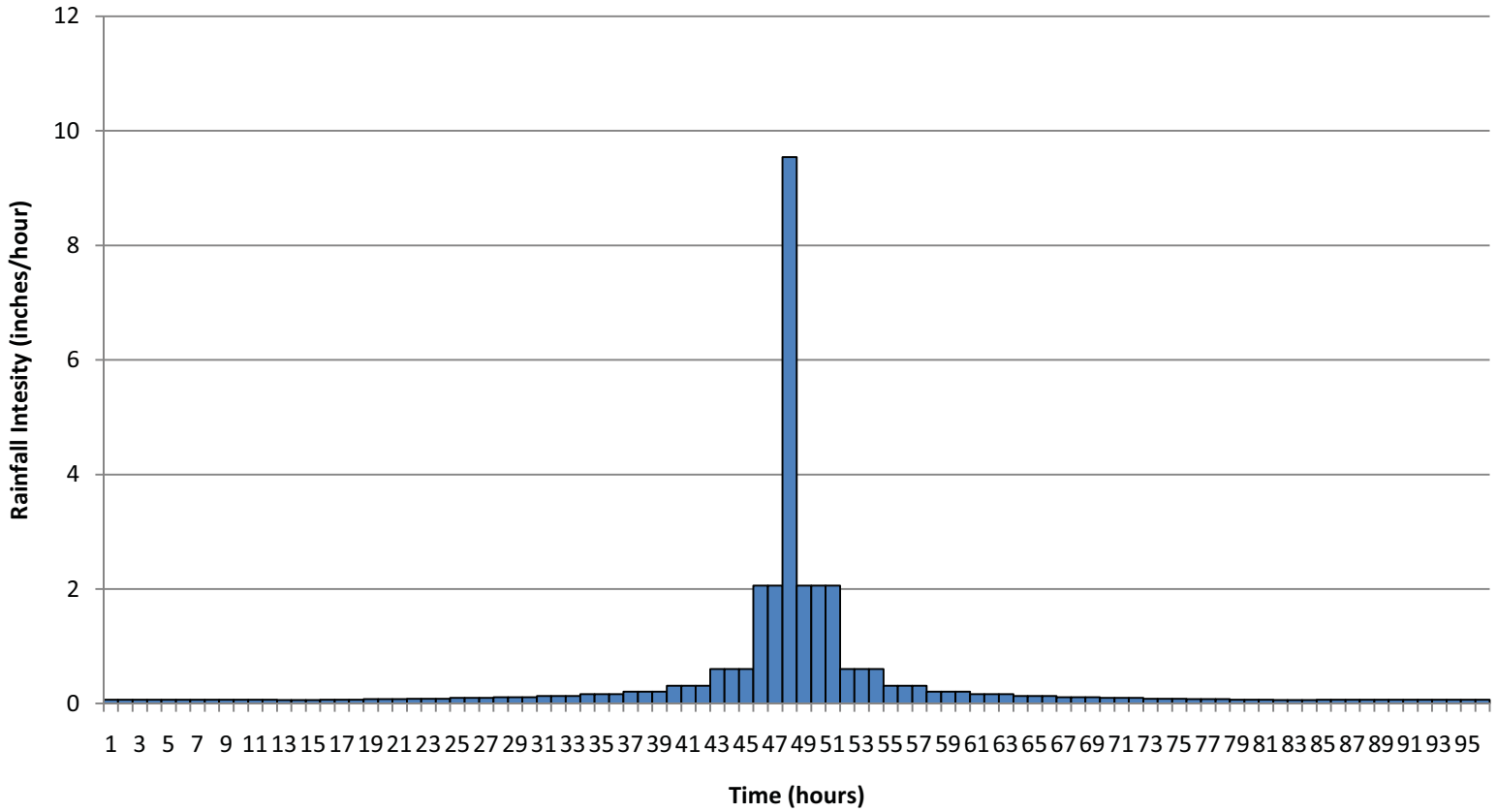
96-hr. PMP Hyetograph for Isohyetal A Centered over the Delaware River Basin near Doylestown, PA

FIGURE 2.4.3-5

Rev. 0



Reference 2.4.3-9

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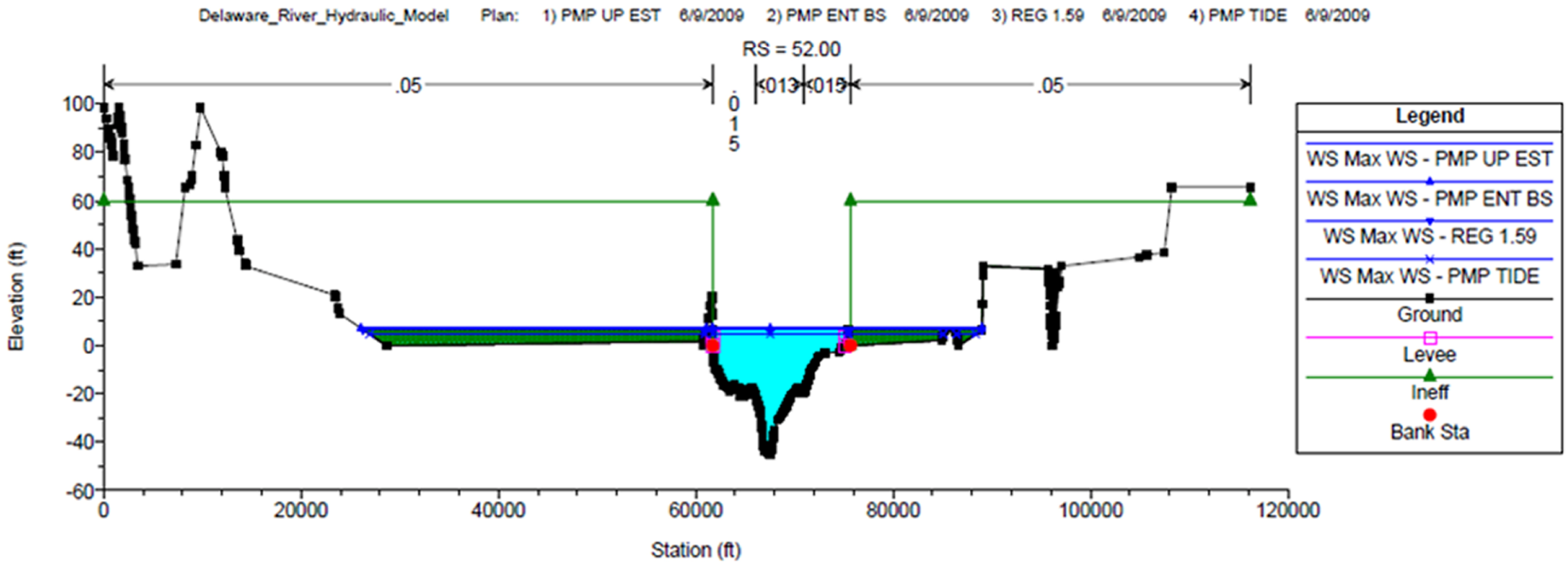
96-hr. PMP Hyetograph for Isohyetal A Centered over the Delaware River Basin near Philadelphia, PA

FIGURE 2.4.3-6

Rev. 0



Legend
WS – water surface
RS – river station
Max- maximum
UP EST– upper estuary
ENT BS – entire basin
Sta – station
Ineff – ineffective flow area
Black cross-sectional area - Blocked flow obstruction
Green cross-sectional area – Ineffective flow area
RM – river mile

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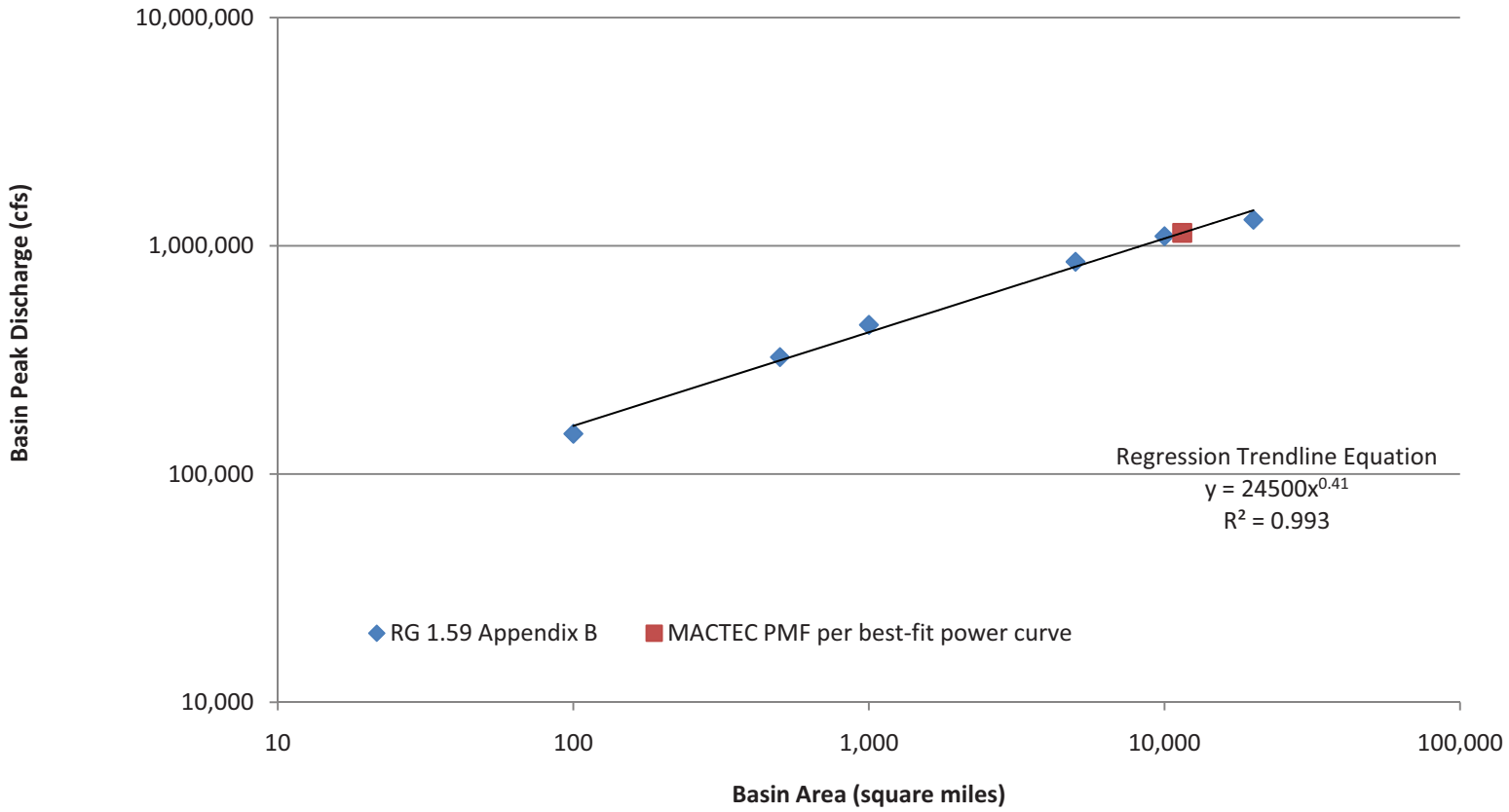
Cross-Section of Delaware River at RM 52 (PSEG Site)

FIGURE 2.4.3-7

Rev. 0



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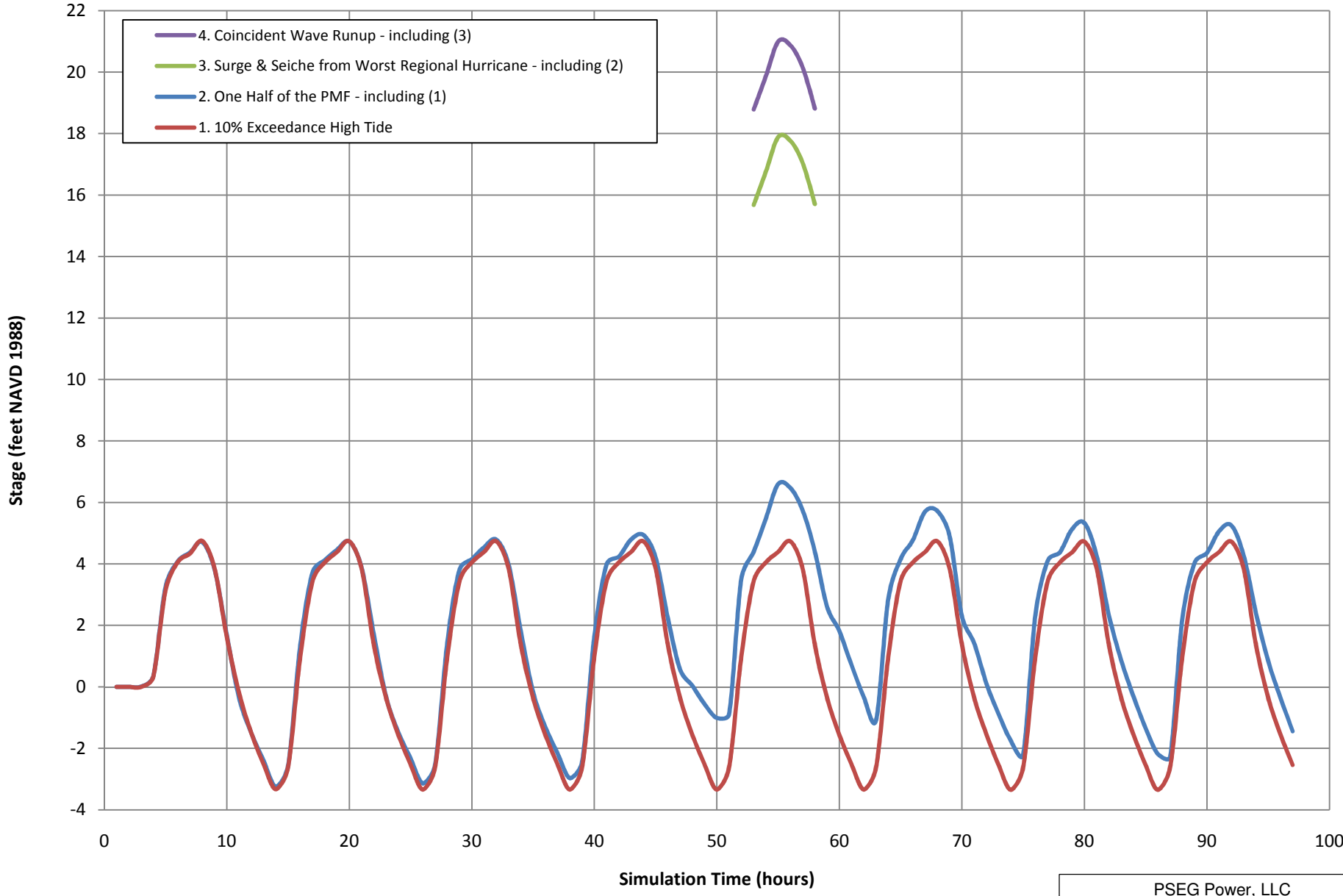
PMF Plot for the PSEG Site per Approximate Method from RG 1!"#

FIGURE 2.4.3-8

Rev! 0



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PSEG Site ESPA
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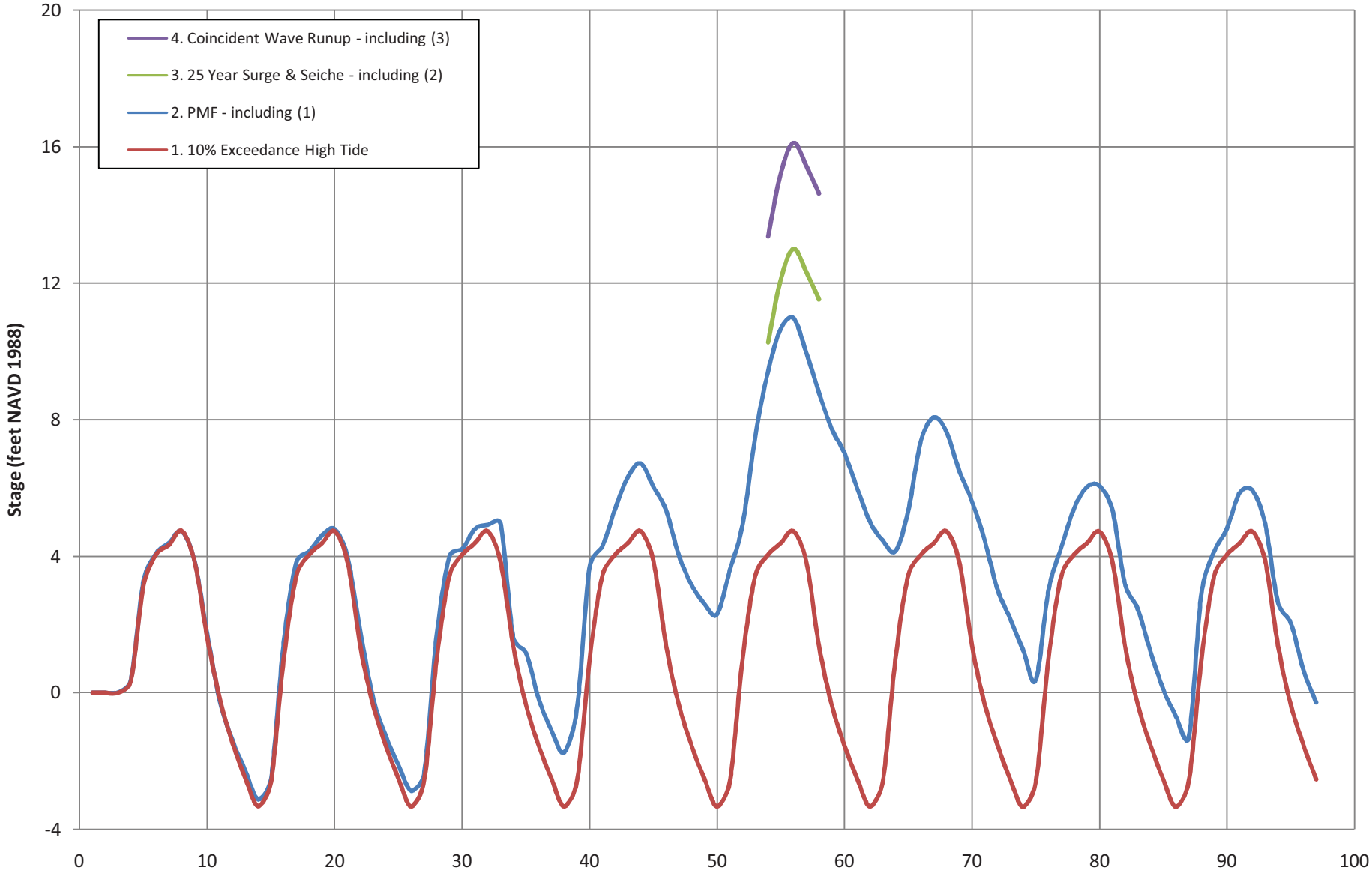
Individual Components of the Combined Event Alternative I of ANSI/ANS-2.8-1992, Section 9.2.2.2 Stage Hydrograph at the PSEG Site

FIGURE 2.4.3-9

Rev. 0



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Individual Components of the Combined Event Alternative II of ANSI/ANS-2.8-1992, Section 9.2.2.2 Stage Hydrograph at the PSEG Site

Figure 2.4.3-10

Rev. 0