### HISTORIC PROPERTIES VISUAL IMPACT ASSESSMENT

## PSEG EARLY SITE PERMIT APPLICATION, SALEM COUNTY, NEW JERSEY:

## **ADDENDUM**

This Addendum to the *Draft Historic Properties Visual Impact Assessment for the PSEG Early Site Permit Application* (MACTEC 2009) presents additional historic architectural resources analyses pertaining to the proposed project as requested by the New Jersey Historic Preservation Office (NJHPO) and the Delaware State Historic Preservation Office (DESHPO) following their review of the draft document.

Additional analyses included herein are the results of a reconnaissance-level architectural resources field survey to identify potential New Jersey/National Register of Historic Places-eligible architectural resources in a refined study area. Further, additional research was conducted to identify resources in the 10-mile-radius area of potential effect (APE) that were previously determined eligible for the National Register of Historic Places (NR) or the New Jersey Register (NJR) of Historic Places. An additional field survey was also conducted to assess the visibility of proposed project elements from all architectural resources in the APE that were not previously field-checked in the *Draft Historic Properties Visual Impact Assessment*. Finally, an assessment of the potential effects of the proposed project on architectural resources in the APE was conducted in keeping with Section 106 of the National Historic Preservation Act.

In summary, no adverse effects on architectural resources have been identified in New Jersey or Delaware. The change in context of applicable resources in both New Jersey and Delaware that would result from the proposed project would not substantially alter the existing aesthetic or scenic qualities of their setting, obstruct important views, or alter the aspects of the resources that qualify them for listing on the NR or NJR. Under the Alloway Creek Neck Road Alternative, no adverse effects on archaeological resources are anticipated. Under the Money Island Road Alternative, archaeological sites could be affected, however, a Phase II archaeological survey would be required to determine if these sites are significant (NR-eligible). If adverse effects to NR-eligible archaeological sites cannot be avoided, appropriate mitigation measures would be developed and implemented in coordination with NJHPO and any other appropriate parties. In terms of submerged cultural resources, no adverse effects are currently anticipated. However, as project plans are developed if the potential is identified for disturbance in areas of identified submerged anomalies is identified, a Phase II submerged resources survey would be required to determine whether the submerged resources are NR-eligible. If NR-eligible submerged resources would be affected by the proposed project, appropriate mitigation measures would be developed and implemented in coordination with NJHPO and any other appropriate parties.

# A. RECONNAISSANCE-LEVEL ARCHITECTURAL RESOURCES SURVEY

This section presents the results of a reconnaissance-level architectural resources field survey conducted for this project in 2011 by an architectural historian that meets the professional qualification standards outlined in 36 CFR 61, Appendix A. Architectural resources in the APE are shown on Figures 1 through 4 and are listed in Tables 1 and 2.

## **NEW JERSEY**

In order to complete the Section 106 process, NJHPO requested that all architectural resources that could be affected by the proposed project, including previously unidentified resources that meet the S/NR eligibility criteria ("potential architectural resources"), should be identified in a reconnaissance-level field survey and the potential for the proposed project to affect any such additional resources should be evaluated in a revised Historic Properties Visual Impact Assessment. NJHPO noted that in order to make this task more efficient, a smaller primary study area should be delineated in place of the 10-mile-radius area of potential effect. The smaller study area should include only locations with the potential to experience a substantial visual impact. Based on NJHPO's informal internal guidelines for delineating APEs for cell tower

projects, NJHPO suggested using a formula of 0.00833 times the height of a proposed feature to determine the radius (in miles) of the study area for the reconnaissance level survey. The application of this formula to the proposed cooling tower's maximum height of 590 feet, resulted in a study area delineation for the reconnaissance-level survey of 4.9 miles.

AKRF architectural historians conducted a reconnaissance-level architectural resources field survey of the 4.9-mile study area. Two potential architectural resources that were not previously evaluated by NJHPO were identified in, or immediately adjacent to, this 4.9-mile study area. One, the Denn House, located at 112 Poplar Street in Lower Alloways Creek Township, is an early 18th century patterned brick house (see Figure 1 and Figure 10, Photo 1). This property is located approximately 4 miles northeast of the proposed cooling tower location. The property was included in the 2009 *Draft Historic Properties Visual Impact Assessment*. This report noted that the proposed cooling tower location was not visible from the property.

A second potentially S/NR-eligible architectural resource was identified at 349 Fort Elfsborg Road in Salem County (see Figure 1 and Figure 10, Photo 2). This residence exhibits elements of the Greek Revival and Italianate styles and appears to date to the mid 19th century. This structure is located immediately north of the 4.9-mile study area, however a portion of the parcel on which the structure stands appears to be located within the 4.9-mile study area. The structure was not identified in the 2009 *Draft Historic Properties Visual Impact Assessment*. Based on the field survey conducted by AKRF, the proposed cooling tower location would be visible from the potential architectural resource.

### **DELAWARE**

Delaware Deputy Historic Preservation Officer Joan Larrivee stated it was not necessary to conduct a full reconnaissance-level architectural resources survey to identify architectural resources that meet the National Register criteria but have not been previously evaluated. She also noted that unlike New Jersey, Delaware does not maintain a State Register of Historic Places. However, she requested that while the visibility analysis was being conducted, if any potentially National Register-eligible architectural resources were noted within 4.9 miles of the proposed cooling tower locations, these should be flagged as potential architectural resources.

One potential architectural resource was noted in the 4.9-mile study area in Delaware. This wood-frame vernacular dwelling is located at 50 Cedar Swamp Road in Townsend (see Figure 4 and Figure 11, Photo 3). The center-chimney house likely dates to the early 19th century. It is located approximately 4 miles southwest of the proposed cooling tower location. The structure was not identified in the 2009 *Draft Historic Properties Visual Impact Assessment*. Based on the field survey conducted by AKRF, the proposed cooling tower location would be visible from the potential architectural resource.

# B. PROPERTIES PREVIOUSLY DETERMINED NATIONAL REGISTER-ELIGIBLE AND/OR NEW JERSEY REGISTER-ELIGIBLE

### **NEW JERSEY**

In addition to the architectural resources identified in the Draft Historic Properties Visual Impact Assessment, ten resources that NJHPO had previously determined NR and/or NJR-eligible were identified in the APE. These resources were added to project maps (see Figure 1) and cultural resources tables (see Table 1) and were field-checked to determine the visibility of proposed project elements from the resources. These resources are discussed further in Section C, Visibility Assessment.

## **DELAWARE**

In order to complete the Section 106 process, the DESHPO requested that resources previously determined eligible for the National Register by DESHPO be included in the visual impact analysis for the proposed project. In order to obtain information on resources determined eligible for the NR in the Delaware study area, an architectural historian conducted site file research at

the DESHPO offices. A large number of previously surveyed architectural properties were identified in the 4.9-mile study area in Delaware. The locations of these resources are illustrated on Figure 9. Of these resources, only five were previously determined NR-eligible. These consisted of 8 Liberty Street, 9 West Market Street, 7 West Market Street, 5 West Market Street, and 2 West Market Street, which were considered NR-eligible as part of the Port Penn Historic District. A field visit indicated that the building at 8 Liberty Street has since been demolished. The remaining four NR-eligible resources were added to project maps (see Figures 2-4) and cultural resources tables (see Table 2), and were field-checked to determine the visibility of proposed project elements from the resources. These resources are discussed further in Section C, Visibility Assessment.

#### C. VISIBILITY ASSESSMENT

The *Draft Historic Properties Visual Impact Assessment* includes an assessment of the visibility of the proposed project from some of the architectural resources in the APE. Some of the architectural resources identified in the report were not field-checked. Those that were field-checked were noted as either having visibility or not having visibility to the proposed project location in Table 1 of the report and were also documented with a photograph and brief description in Appendix B of the report. This section of the Addendum presents the results of a field survey to document the visibility of the proposed project from the architectural resources that were not field-checked as part of the original survey. In addition, architectural resources that were identified as part of this Addendum, including State/National Register-eligible resources and potentially State/National Register-eligible resources were also field-checked.

#### **NEW JERSEY**

Fourteen architectural resources were identified in the New Jersey portion of the APE in the *Draft Historic Properties Visual Impact Assessment*. All of these properties were field-checked as part of MACTEC's original survey. Four of the fourteen resources were identified by MACTEC as having views to the location of the proposed cooling tower. These resources were the following: the Joseph Ware House at 134 Poplar Street (NR-listed); the Benjamin Holmes House at 410 Fort Elfsborg Road (NR-listed); the Abel and Mary Nicholson House at 12 Fort Elfsborg Road (NR-listed); and the John Mason House (determined NR-eligible as part of this project). The proposed project was observed not to be visible from the remaining ten architectural resources identified and field-checked by MACTEC.

Table 1 provides a comprehensive list of all NJR- and NR-listed, NJR- and NR-eligible architectural resources in the APE in New Jersey. The table summarizes the results of MACTEC's original visibility field survey and also presents the results of AKRF's subsequent field survey to assess the visibility of the project from all architectural resources not previously field-checked by MACTEC. Six architectural resources were field-checked by AKRF as part of this study; the proposed project location appeared to be visible from two resources that had not been previously field-checked: the Samuel Urion / Yerkes Farmstead on Lighthouse Road and the Nathaniel Chambless House on Alloway Creek Neck Road.

Figure 5 illustrates the location of the architectural resources in the New Jersey portion of the APE and whether the proposed project location appeared to be visible from the resources based on MACTEC's and AKRF's surveys. Figures 12 through 16 illustrate the architectural resources whose visibility of the proposed project was field-checked as part of this Addendum. Where possible, views looking towards the proposed cooling tower from the resource are also provided. The four architectural resources that MACTEC identified as having views of the proposed project location were also revisited and photographs of these resources are also included in Figures 12 to 16.

## **DELAWARE**

Seventy-nine architectural resources were identified in the Delaware portion of the APE in the *Draft Historic Properties Visual Impact Assessment*. Thirty-seven of these properties were field-

checked as part of MACTEC's original survey. Eight of the 37 resources were identified by MACTEC as having views to the location of the proposed cooling tower. These sites consisted of the following NR-listed resources: the Augustine Beach Hotel at 1919 St. Augustine Road; the Port Penn Historic District in Port Penn; the Liston Front Range Lighthouse at 1600 Belts Road; Hell Island; the Short's Landing Hotel Complex at 6180 Fleming Island Road; the Reedy Island Rear Range Light at the intersection of State Route 9 and Cedar Swamp Road; and Misty Vale off Reading Lane. Five of the field-checked sites were listed as "not determined," because the resource could not be located.

Table 2 provides a comprehensive list of all of the NR-listed and NR-eligible architectural resources identified in the APE in Delaware. The table summarizes the results of MACTEC's original visibility field survey and also presents the results of AKRF's subsequent field survey to assess the visibility of the proposed cooling towers from all architectural resources not previously field-checked by MACTEC. Forty-four architectural resources were field-checked by AKRF as part of this study; the proposed project location appeared to be visible from 30 of these 44 resources.

Figures 6 through 8 illustrate the location of the architectural resources in the Delaware portion of the APE and whether the proposed project location appeared to be visible from the resources based on MACTEC's and AKRF's surveys. Figures 17 through 37 provide photographs of the architectural resources whose visibility of the proposed project was field-checked as part of this Addendum. Where possible, views looking towards the proposed cooling tower from the resource are also provided.

## D. EFFECTS ASSESSMENT

In accordance with Section 106 of the National Historic Preservation Act, this section assesses the potential for the proposed project to result in adverse effects to architectural resources. Effects on historic properties may include both direct effects and indirect effects resulting from project construction or project operation. Assessments of effects are based on the Advisory Council's Criteria of Adverse Effect codified in 36 CFR § 800.5(a)(2). According to the Advisory Council's criteria, an adverse effect is found "when an undertaking may alter, directly or indirectly, any of the characteristics of a historic property that qualify the property for inclusion in the National Register in a manner that would diminish the integrity of the property's location, design, setting, materials, workmanship, feeling, or association." Examples of adverse effects include, but are not limited to "physical destruction or damage of all or part of the property;" "removal of the property from its historic location; change of the character of the property's use or of physical features within the property's setting that contribute to its historic significance;" and "introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features."

The DESHPO developed specific guidelines for assessing visual effects on historic properties in accordance with Section 106 and other legislation. These guidelines consider adverse visual effects possible when a proposed action would cause a "change in aesthetic values" or "obstruction of views." The guidelines define adverse effects as "those that diminish the property's integrity, which negatively affects its historic significance and hence its eligibility for the National Register of Historic Places." The two potential types of visual effect identified by DESHPO (aesthetic effects and obstructive effects) are defined as follows: "an aesthetic effect occurs when there is an effect on the perceived beauty of a place or structure. Adverse aesthetic effects on historic properties are those that impair the character or quality of a historic property, and thus cause a diminishment of the enjoyment and appreciation of the property." An obstructive effect "occurs when the proposed project obstructs any part of a historically significant property or scenic view from the viewpoint of the historic property. Adverse obstructive effects on historic properties are those that obstruct in whole or part of the property and that cause a diminishment of the property's historic character."

#### **NEW JERSEY**

Based on project plans, proposed project construction is far enough removed from the architectural resources in the project APE that no potential for physical destruction or damage (including inadvertent damage resulting from adjacent construction) of architectural resources has been identified.

In terms of the potential for indirect effects, as described in Section C, above, field surveys performed by MACTEC and AKRF concluded that 16 of the 22 architectural resources in the New Jersey portion of the APE did not appear to possess views to the proposed project location (see Table 1). These 16 resources would not experience indirect effects as a result of the proposed project.

Six of the 22 architectural resources in the New Jersey portion of the APE were observed to possess views towards the proposed project location. These six resources are analyzed in greater detail below, in order to evaluate the potential for adverse indirect effects on these resources.

The Samuel Urion / Yerkes Farmstead (see Figure 5, Resource #2; and Figure 12, Photo 1) is a three-story brick residence located over 9 miles north of the proposed project site. Although the proposed cooling towers would likely be visible from the resource due to the flat and open terrain in the area, the proposed cooling towers would be relatively distant from the resource. Further, the existing Hope Creek cooling tower is currently distantly visible from the resource. The addition of two additional cooling towers closely adjacent to the existing cooling tower would not represent a substantial deviation from the existing views from the resource. Although the addition of two additional cooling towers would be noticeable, it would not change the overall character of the resource's context nor would it affect the aspects of the property's setting that qualify it for the New Jersey and National Registers. Therefore, no adverse effects to the Samuel Urion/ Yerkes Farmstead would result from the proposed project.

Similarly, the Benjamin Holmes House (see Figure 5, Resource #13; and Figure 14, Photo 6) is located approximately 5 miles north of the project site. The proposed cooling towers would likely be visible from the resource. As shown on Figure 14 (Photo 6) views to the existing and proposed cooling towers are partially blocked by vegetation. The addition of two new cooling towers to a view already containing a cooling tower would not substantially change the character of the resource's context, nor would it affect the qualities that qualify the resource for New Jersey and National Register listing. Therefore, no adverse effects to the Benjamin Holmes House would result from the proposed project.

The Abel and Mary Nicholson House, a patterned brick house that is both listed on the New Jersey and National Registers and as a National Historic Landmark (NHL), is located approximately five miles northeast of the project site (see Figure 5, Resource #17; and Figure 15, Photo 8). As shown on Figure 15 (Photo 8) and in a visual simulation of the existing and proposed conditions from the Abel and Mary Nicholson House that is included in the *Draft Historic Properties* as Appendix C, Photo 3, the existing cooling tower is distantly visible from the Abel and Mary Nicholson House. The proposed cooling towers would also be visible, positioned in close proximity to the existing tower. The overall change in the visual character and context of the Abel and Mary Nicholson House would not be substantial and would not compromise the aspects of the resource that qualify it for New Jersey/National Register listing and National Historic Landmark designation. Therefore, no adverse effects to the Abel and Mary Nicholson House would result from the proposed project.

The Ware Shourds House is a New Jersey/National Register-listed brick farmhouse located approximately 4 miles northeast of the proposed project (see Figure 5, Resource #20; and Figure 16, Photo 9). A visual simulation of the existing and proposed conditions from the Ware-Shourds House is included in the *Draft Historic Properties* as Appendix C, Photo 4. The existing cooling tower and the proposed cooling tower locations are marginally visible from the resource; they are partially blocked by trees and by non-contributing outbuildings on the property. The

introduction of the proposed new cooling towers on the project site would not result in a substantial change in the character of the context of the Ware Shourds House, nor would it affect the features of the property that qualify it for listing on the New Jersey or National Registers. Therefore, no adverse effects to the Ware Shourds House would result from the proposed project.

The Nathaniel Chambless House is a New Jersey/National Register-eligible patterned brick farmhouse located approximately 3.5 miles east of the proposed project (see Figure 5, Resource #22; and Figure 16, Photo 10). The resource has a relatively clear view of the existing cooling tower due to the open and flat topography in the immediate area. The proposed cooling towers are also anticipated to be visible, immediately adjacent to the existing tower. Although the introduction of a new cooling tower would constitute new feature in the context of the resource, due to the presence of an existing cooling tower, the change in the resource's context would not deviate substantially from the present conditions. The addition of the new cooling towers would not alter the resource or its context in such a way as to compromise its New Jersey/National Register eligibility. Therefore, no adverse effect to the Nathaniel Chambless House is expected to result from the proposed project.

The John Mason House (see Figure 5, Resource #15) is a residence reportedly dating to the late 17th century located approximately 4.5 miles northeast of the project site. As described in the *Draft Historic Properties Visual Impact Assessment* (see Appendix B, page B-12) and shown in a visual simulation of the existing and proposed conditions from the Mason House (see *Draft Historic Properties Visual Impact Assessment* Appendix C, Photo 2), the existing cooling tower is marginally visible from the resource and the proposed cooling towers are also expected to be marginally visible. The introduction of the proposed cooling towers into the setting of the John Mason House would not substantially alter the setting of the resource and would not alter the aspects of the property or its context that qualify it for New Jersey/National Register listing. Therefore, no adverse effects to the John Mason House are expected to result from the proposed project.

Two potential architectural resources are located within or adjacent to the 4.9-mile-radius study area in New Jersey: the John Maddox Denn House at 112 Poplar Street and the residence at 349 Fort Elfsborg Road (see Figures 5 and 10). The Denn House is located approximately four miles east of the project site; MACTEC's field survey determined that the Denn House did not have views to the proposed cooling tower sites. The residence at 349 Fort Elfsborg Road is located approximately 5 miles north of the project site; the property on which the residence stands is within or immediately adjacent to the 4.9-mile-radius study area. Although the existing cooling tower is distantly visible from the resource and the proposed cooling towers are predicted to be distantly visible, this change would not alter the character-defining features of the resource nor substantially alter aspects of the resource's existing context in such a way that would affect its eligibility for the New Jersey/National Register. Therefore, no adverse effects to the John Mason House or the John Maddox Denn House are expected to result from the proposed project.

## DELAWARE

Proposed project construction, all located in New Jersey, is far enough removed from the architectural resources in the Delaware portion of the APE that no potential for physical destruction or damage (including inadvertent damage resulting from adjacent construction) of architectural resources in Delaware has been identified.

In terms of the potential for indirect effects, as described in Section C, above, field surveys performed by MACTEC and AKRF concluded that 32 of the 79 architectural resources in the Delaware portion of the APE did not appear to possess views to the proposed project location (see Table 2). These 32 resources would not experience indirect effects as a result of the proposed project.

Forty-seven of the 79 architectural resources in the Delaware portion of the APE were observed to possess views towards the proposed project location. These resources are analyzed in greater detail below in order to evaluate the potential for adverse indirect effects on these resources in accordance with Section 106. In general, architectural resources in Delaware with views of the project site are located more than two miles west of the project site and are separated from the project site by the Delaware River. Due to the flat topography and open terrain that characterizes the area, the existing cooling tower can be seen from distances of at least ten miles from the project site where obstructions do not intervene. Similarly, the proposed cooling towers would also likely be visible from many relatively distant vantage points. Resources in Delaware with views of the project site are summarized in Table 2; their locations are shown on Figures 6 through 8. Photographs of the resources field-checked by MACTEC are included in Appendix B of the *Draft Historic Properties Visual Impact Assessment*. Photographs of those field-checked by AKRF are included in Figures 17 through 37 of this Addendum.

Forty-three of the 47 architectural resources in the Delaware portion of the APE with views of the project site are listed on the National Register. One of these resources, the Corbit-Sharp House (Resource # 54), located approximately 6 miles west of the project site, is also an NHL. Four of the 47 architectural resources in the Delaware portion of the APE with views of the project site were determined eligible for the National Register as a proposed expansion of the NR-listed Port Penn Historic District. One potentially NR-eligible resource was identified in Delaware.

All of the resources located within the 10-mile APE but beyond the 4.9-mile study area (including the NHL Corbit-Sharp House) experience only distant views of the cooling tower locations. This distant view is often partially blocked by topography or vegetation; for example, Okolona (see Figure 7, Resource #44; and Figure 27, Photo 21) from which the existing cooling tower can be only distantly perceived and the Arnold S. Naudain House (see Figure 8, Resource #66; and Figure 33, Photo 34) from which only the water vapor issuing from the existing cooling tower can be seen above the tree line. The proposed addition of two cooling towers in close proximity to the existing cooling tower is not expected to result in a substantial aesthetic change in the context of the resources in the APE that are located more than 4.9 miles from the project site. Further, the proposed cooling tower would not obstruct views of any architectural resources in this area nor would it change or obstruct any existing scenic views in a manner that would affect the National Register eligibility of the resources. No adverse effects on these resources would result from the proposed project.

Eighteen of the architectural resources identified in Delaware are located within 4.9 miles of the project site, including two historic districts: the NR-listed Port Penn Historic District and the NRlisted Ashton Historic District. The Port Penn Historic District (see Figure 7, Resource #28), located approximately 3.5 miles northwest of the project site, and the adjacent four NR-eligible architectural resources that comprise a possible expansion of that Historic District (see Figure 7, Resources #76 through 79; and Figures 35 through 37) have only marginal views towards the cooling tower in the winter months; in the summer the existing cooling tower and proposed cooling tower locations are largely obscured by vegetation. The Ashton Historic District (see Figure 6, Resource #20; and Figure 22, Photo 11) is located approximately 4 miles northwest of the project site. Distant views of the existing cooling tower and the locations of the proposed cooling towers were observed in a field visit. The change that would result in the context of this resource and the other resources located within 4.9 miles of the project site would not constitute an aesthetic effect on these resources. The context of the resources already contains a cooling tower; the addition of two new cooling towers would not substantially alter the overall aesthetic character of the resources or their setting. Further, the proposed cooling towers would not block views of historic resources or obstruct existing scenic views enjoyed from the architectural resources.

One potential architectural resource was identified by AKRF, within or adjacent to, the 4.9-mile-radius study area in Delaware: a wood-frame vernacular house at 50 Cedar Swamp Road (see Figures 8 and 11) located approximately 4 miles southwest of the project site. Although the

existing cooling tower is distantly visible from the resource and the proposed cooling towers are also predicted to be distantly visible, this change would not alter aspects of the resource's existing context in such a way that would affect its eligibility for the New Jersey/National Register. Therefore, no adverse effects to the potential architectural resource at 50 Cedar Swamp Road would result from the proposed project.

In summary, no adverse effects would occur on architectural resources in the Delaware portion of the APE as a result of the proposed project. Although the resources that currently have views of the existing cooling tower would likely have views of the proposed cooling towers, the change in the context of these resources that would result from the proposed project would not substantially alter the aesthetic or scenic qualities of their existing setting, obstruct important views, or alter the aspects of the resources that qualify them for National Register listing.

Table 1 **Architectural Resources in New Jersev APE** 

Map ID*	NAME	Location	NHL	NR/SR- Listed	NR/SR Eligible	Survey	Cooling Tower Visibility
1	Finn's Point Rear Range Light	Intersection of Fort Mott and Lighthouse Roads		Х		MACTEC	No
2	Samuel Urion / Yerkes Farmstead	Lighthouse Road, Supawna National Wildlife Refuge			Х	AKRF	Yes
3	Fort Mott and Finn's Point National Cemetery Historic District	On the Delaware River at Finn's Point		х		MACTEC	No
4	Fort Mott and Finns Point National Cemetery Historic District Boundary Increase	On the Delaware River at Finn's Point		х		MACTEC	No
5	Salem Motor Vehicle Inspection Station	185 Route 45			Х	AKRF	No
6	Market Street Historic District	Market Street from East Broadway to Fenwick Creek		х		MACTEC	No
7	Chestnut Street Streetscape	Chestnut Street			Х	AKRF	No
8	Hedge-Carpenter- Thompson Historic District	Bounded by Hedge, Thompson, South Third, and Oak Street		х		MACTEC	No
9	Oak Street Streetscape	Oak Street			Х	AKRF	No
10	Walnut Street Streetscape	Walnut Street			Х	AKRF	No
11	Broadway Historic District	West Broadway, East Broadway, and small portions of Johnson, New Market, and Yorke Streets		×		MACTEC	No
12	Salem Working Class Historic District	Portions of Elm, Olive, Church, Sinnickson, Eakin, Linden Streets			X	AKRF	No
13	Holmeland (Benjamin Holmes House)	Fort Elfsborg-Hancock's Bridge Road		Х		MACTEC	Yes
14	Samuel and Sarah Nicholson House	Amwellbury Road near Featherbed Lane		х		MACTEC	No
15	John Mason House	63 Money Island Road			X	MACTEC	Yes
16	New Bridge Road (CR623) Bridge (Str. #1701399)	New Bridge Road (County Route 623) over Alloways Creek			Х	AKRF	No
17	Abel and Mary Nicholson House	Hancocks Bridge-Fort Elfsborg Road	Х	Х		MACTEC	Yes
18	Abbot House	120 Abbot Farm Road			Х	MACTEC	No
19	Hancock House	Hancock's Bridge, Locust Island Road		х		MACTEC	No
20	Ware-Shourds House	134 Poplar Street		X		MACTEC	Yes
21	Alloways Creek Friends Meetinghouse	74 Buttonwood Avenue		х		MACTEC	No
22	Nathaniel Chambless House	Alloway Creek Neck Rd.			Х	AKRF	Yes

Notes:
NHL: National Historic Landmark
NR/SR: National Register/State Register of Historic Places
\* Corresponds to Figure 1.

Table 2

APE
Delaware
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Resources
Architectural

_						Z.	NR-		Cooling Tower
CRSNUM	MO	Name	City	Location	NHL	Listed	Eligible	Survey	Visibility
N00145	145	Fort Delaware on Pea Patch Island	Delaware City	Pea Patch Island in the Delaware River		×		AKRF	Yes
N01559	559	Eastern Lock of the Chesapeake and Delaware Canal	Delaware City	Battery Park		×		MACTEC	Yes
N06333	333	Delaware City Historic District	Delaware City	Roughly bounded by the Delaware River, Dragon Creek, DE 9, and the Delaware and Chesapeake Canals		×		MACTEC	N O
N00429	429	Chelsea	Delaware City	DE 9		×		MACTEC	9 N
N01499	499	Fort Dupont Historic District	Delaware City	East side of route 9, south of the Chesapeake and Delaware Canal		×		MACTEC	Yes
N05048	348	Fairview	Delaware City	US 13		×		AKRF	9N
N01493	493	Linden Hill	St. Georges	US 13		×		AKRF	Yes
N05038	338	Dragon Run Farm	Kirkwood	McCoy Rd.		×		AKRF	No
N05041	J41	St. Georges Cemetery Caretaker's House	St. Georges	Kirkwood and St. Georges Rd.		×		AKRF	No
N00142	142	McCoy House	Kirkwood	Kirkwood and McCoy Rds.		×		AKRF	No
N05045	345	Vernacular Frame House	St. Georges	Delaware St.		×		AKRF	No
N05002	002	North Saint Georges Historic District	St. Georges	Main, Broad, Delaware and Church Streets		×		MACTEC	No
N09561	561	St. Georges Presbyterian Church	St. Georges	Main St.		×		MACTEC	No
N00144	144	Sutton House	St. Georges	Broad and Delaware Sts.		×		MACTEC	No
N05042	242	Bloomfield	St. Georges	US 13		×		MACTEC	No
N12738	738	Windsor	Port Penn	1060 Dutch Neck Rd.		×		AKRF	Yes
N03947	947	Idalia Manor	Mt. Pleasant	Rt. 13		×		AKRF	Yes
N05193	193	Fairview	Odessa	Rt. 412		×		AKRF	No
N03939	939	John B. Nelson, House	Port Penn	W of Port Penn off U.S. 13		×		AKRF	Yes
N03932	932	Ashton Historic District	Port Penn	N of Port Penn on Thormton Rd.		×		AKRF	Yes
N05253	253	Mondamon Farm	Odessa	Rt. 2		×		MACTEC	Yes
N03935	935	Biddle House	St. Georges	S of St. Georges on U.S. 13		×		MACTEC	Yes
N01623	523	Liston Range Rear Light Station	Port Penn	W of Port Penn on DE 2		×		MACTEC	Yes
N03944	944	Cleaver House	Port Penn	Off Biddle's Corner Rd.		×		AKRF	Yes
N13383	383	Robert Grose House	Port Penn	1000 Port Penn Rd		×		AKRF	Yes
N00413	413	A. Eliason House	Mt. Pleasant	Rt. 896		×		AKRF	No
N00147	147	Dilworth House	Port Penn	Off DE 9		×		AKRF	Yes
N03928	928	Port Penn Historic District	Port Penn	DE 9		×		MACTEC	Yes
N00148	148	Hazel Glen	Port Penn	W of Port Penn on DE 420		×		AKRF	Yes
N05201.001	1.001	Retirement Farm	Odessa	US 13		×		AKRF	Yes
N00150	150	Augustine Beach Hotel	Port Penn	S of Port Penn on DE 9		×		MACTEC	Yes
N05181	181	Elm Grange	Odessa	US 13		×		AKRF	Yes
N00121	121	Weston	Middletown	Off DE 71		×		AKRF	9N

Table 2

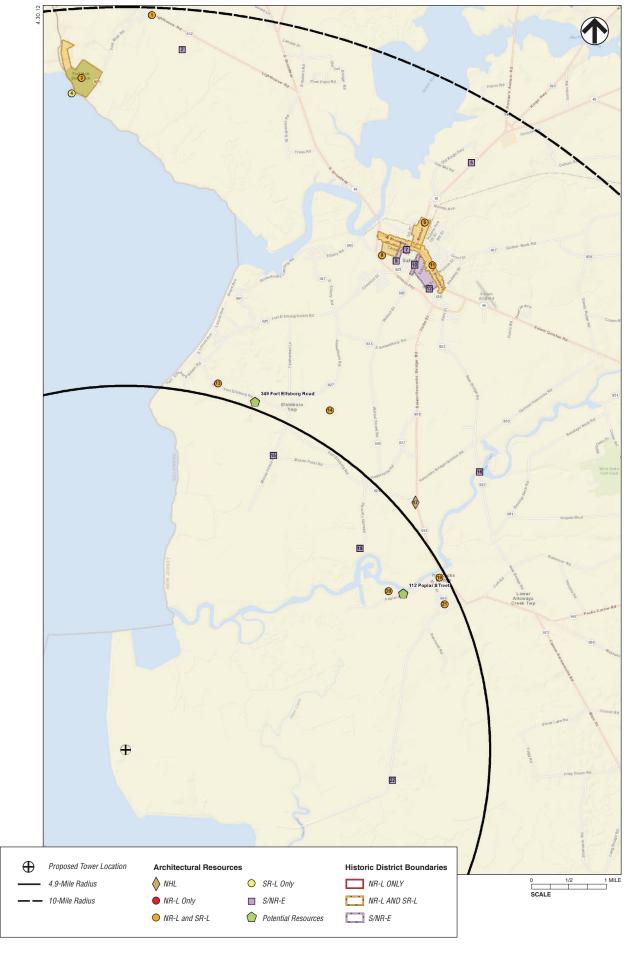
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Architectural

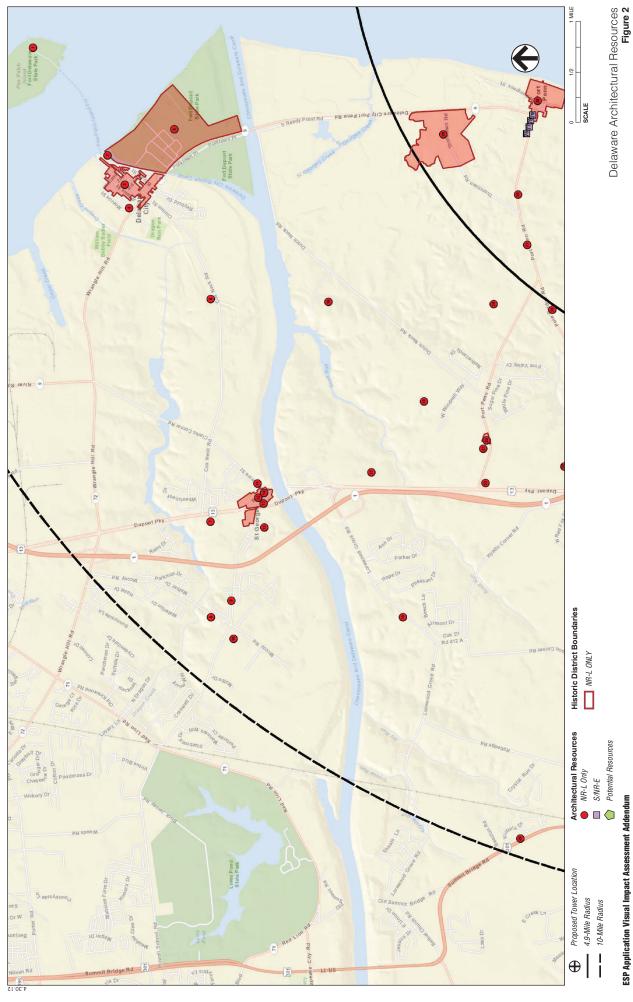
Cooling Tower	Vac	507	SP CV	Vec.	S oN	Yes	Yes	Yes	N <sub>o</sub>	No	No	No	Yes	Yes	No	No	No	No	No	No		Yes	Yes	No	Yes	o N	Yes	Yes	N <sub>o</sub>	Yes	Yes	No	Yes	Yes	Yes
	-	(	<u>Н</u>	2 4	LEC	EC	노	LEC	LEC	LEC	붓	۲F	₹F	₹.	사	LEC	LEC	LEC	LEC	LEC		LEC	붓	LEC	붓	LEC	₹.	붓	LEC	₹.	상	₹F	٦٤	₹.	L
, over 1	╁		MACTED	AKBE	MACTEC	MACTEC	AKRF	MACTEC	MACTEC	MACTEC	AKRF	AKRF	AKRF	AKRF	AKRF	MACTEC	MACTEC	MACTEC	MACTEC	MACTEC		MACTEC	AKRF	MACTEC	AKRF	MACTEC	AKRF	AKRF	MACTEC	AKRF	AKRF	AKRF	AKRF	AKRF	MACTEC
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noiteno	Ecanon Rt 403	11: 42 Odosoo 110 43	N of Odessa on Bawiew Bd	IN OLGESSA OII BAYNEW INC.	Rt. 423	Off Bay View and Silver Run Rds.	2569 Dupont Pkwy. (US 13)	1600 Belts Road	N of Middletown on SR 429	DE 71	Rt. 429	W of Odessa off U.S. 13	Rt. 44	U.S. 13	1.2 mi. NW of Odessa on Marl Pit Rd.	High St.	Main St.	N. Broad St.	Off DE 71	Bounded roughly by	Appoquinimink Creek on SE, High St. on NE, 4th St. on NW, and Main St on SW	SW corner of Main and 2nd Sts.	DE 4	218 N. Broad St.	Odessa and Silver Lake Rds.	Roughly bounded by Redding, Scott, Lockwood, and Catherine Sts.	SE of Odessa	Thomas Landing Rd. (DE 440)	15 W. Cochran St.	326 Thomas Landing Rd.	S of Middletown off DE 896	S of Middletown off DE 71	3379 Dupont Pkwy. (US 13)	S of Middletown on DE 71	F of Taylors Bridge on DF 453
į	Odessa	Odessa	Odessa	Middletown	Odessa	Odessa	Odessa	Bay View Beach	Middletown	Middletown	Middletown	Odessa	Odessa	Odessa	Odessa	Odessa	Odessa	Middletown	Middletown	Odessa		Odessa	Odessa	Middletown	Middletown	Middletown	Odessa	Odessa	Middletown	Odessa	Middletown	Middletown	Odessa	Middletown	Taylors Bridge
OMON	S Higgins Farm	J. J	Monferey Monferey	Belleview	Misty Vale	Riverdale	Mount Jones	Liston Range Front Lighthouse	Achmester	Armstrong-Walker House	Okolona	Sereck Shallcross House	J. Vandegrift House	Old Drawyers Church	Williams House	Old St. Paul's Methodist Episcopal Church	Appoquinimink Friends Meetinghouse	Greenlawn	Fields Heirs	Odessa Historic District		Corbit-Sharp House	J. Shallcross House	Middletown Academy	Pharo House	Middletown Historic District	Fairview	Green Meadow	St. Joseph's Church	David W. Thomas House	Noxontown	Old St. Anne's Church	Hill Island Farm	Arnold S. Naudain House	Hart House
MINOGO	NO5165	100 CON	N00424	NO5155	N05159	N05170	N01503	N03901	N03930	N05146	N05135	N00116	N05177	N00154	N00120	N01617	N00416	N00188	N00105	N00126		N00125	N00115	N00155	N05934	N00425	N00214	N06240	N03890	N06237	N00122	N00124	N05898	N00123	N00152
Map *C	2 2	ן מ	36	37	38	39	40	41	42	43	44	45	46	47	48	49	20	51	25	53		54	22	99	22	28	29	09	61	62	63	64	65	99	67

Table 2

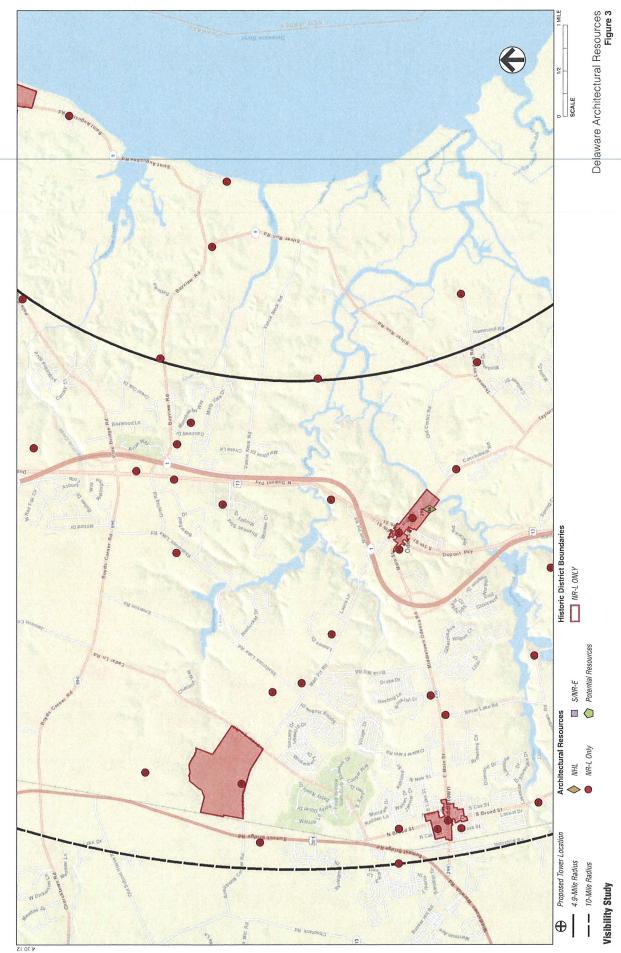
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Мар						NR-	NR-		<b>Cooling Tower</b>
<u>*</u>	CRSNUM	Name	City	Location	NHL	Listed	Eligible	Survey	Visibility
89	N04247	Johnson Home Farm	Taylor's Bridge	Co. Rd. 453 E of jct. with DE 9		×		AKRF	Yes
69	N05120	Reedy Island Range Rear Light	Taylor's Bridge	Jct. of DE 9 and Rd. 453		×		MACTEC	Yes
20	N00151	Liston House	Taylors Bridge	E of Taylors Bridge on DE 453		×		MACTEC	Yes
71	N00419	Huguenot House	Taylors Bridge	W of Taylors Bridge on DE 9		×		MACTEC	Yes
72	N10297	Townsend Historic District	puəsuwo_	Roughly bounded by Gray, Ginn		×		AKRF	No
				and South, Lattamus and Main					
				Sts., and Commerce St. and					
				Cannery Ln. and Railroad Ave.					
73	N00423	Old Union Methodist Church	Blackbird Crossroads	0.2 mi. N of Blackbird Crossroads		×		AKRF	<sub>S</sub>
				on U.S. 13					
74	N00153	Fleming House	Smyrna	NE of Smyrna on DE 9		×		MACTEC	Yes
22	K03993	Short's Landing Hotel Complex	Smyrna	NE of Smyrna		×		MACTEC	Yes
9/	N1246	9 West Market Street	Port Penn	9 West Market Street			X	AKRF	Yes
77	N1247	Elmer Bender House	Port Penn	7 West Market Street			×	AKRF	Yes
28	N1248	Charles Hickman Dwelling Complex	Port Penn	5 West Market Street			X	AKRF	Yes
26	N1249	David Corbit House	Port Penn	3 West Market Street			×	AKRF	Yes
Notes	::·								
Ä.	NHL: National Historic Landmark	c Landmark							
NR:	Vational Registe	NR: National Register of Historic Places							
* Cori	* Corresponds to Figures 2-5	ures 2-5							

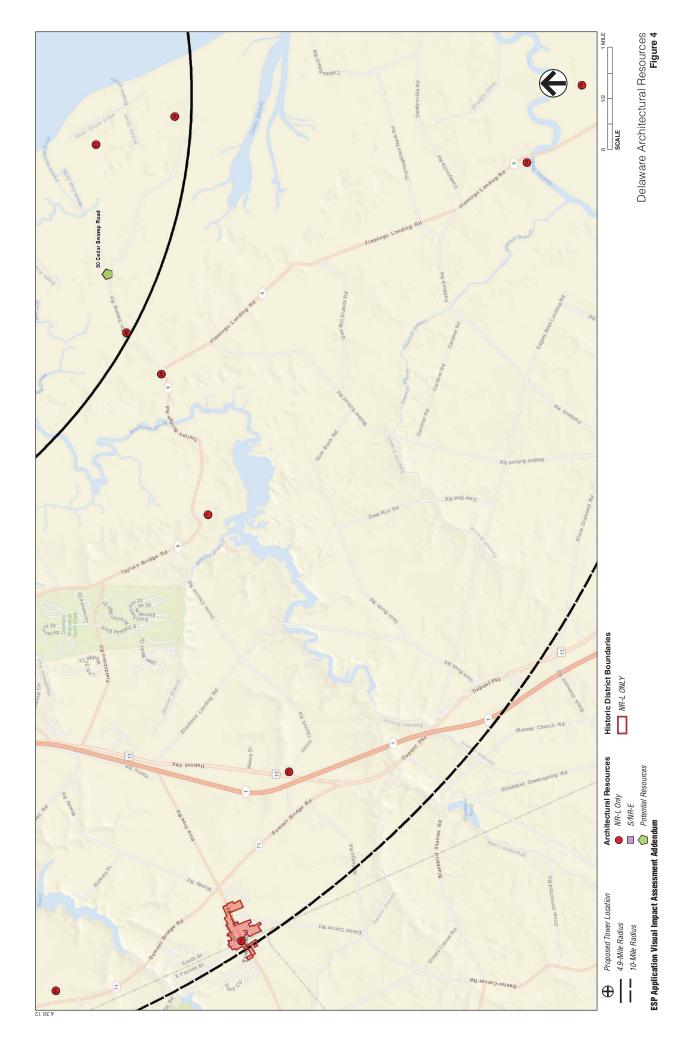


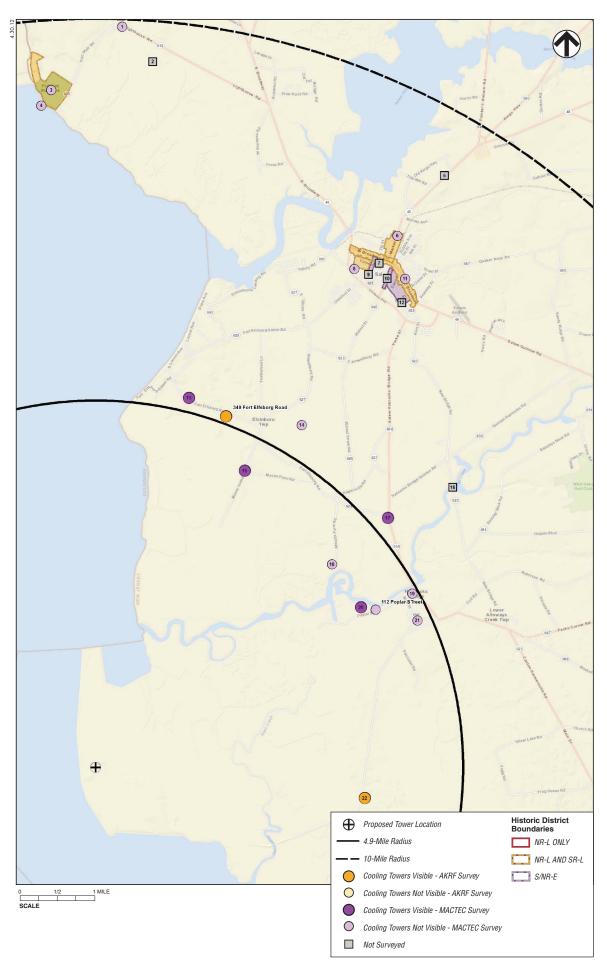


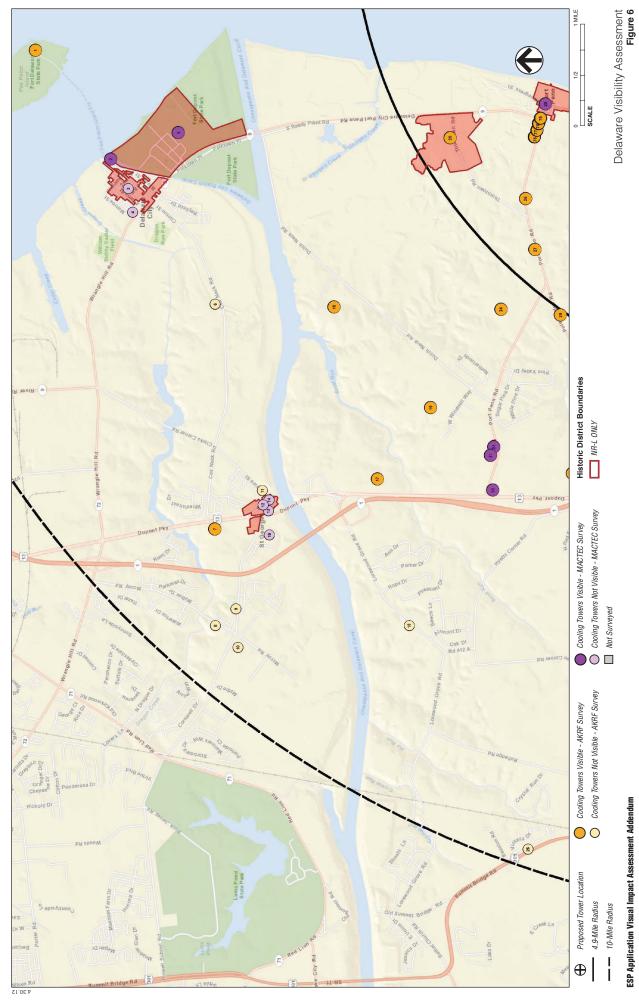
ESP Application Visual Impact Assessment Addendum



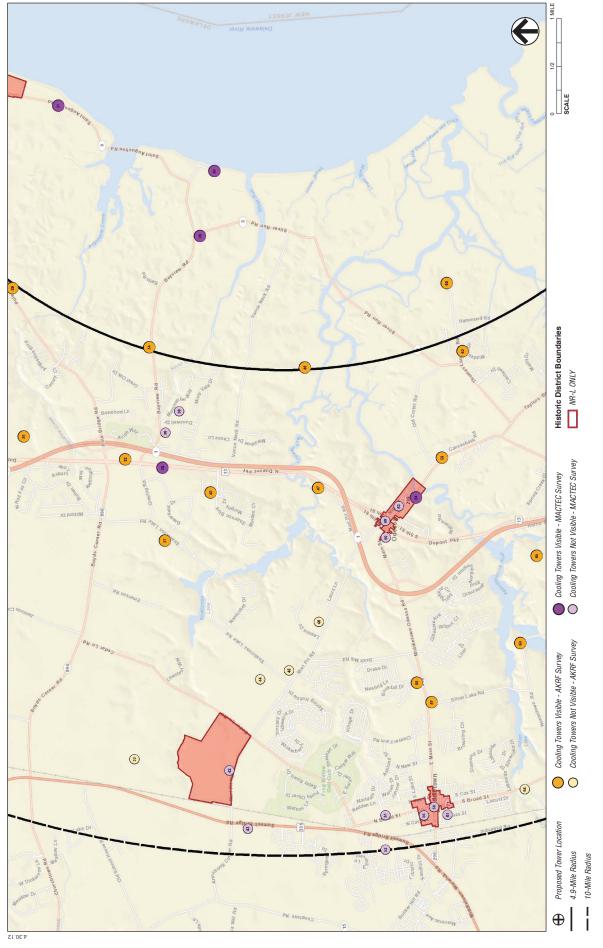
Visibility Study



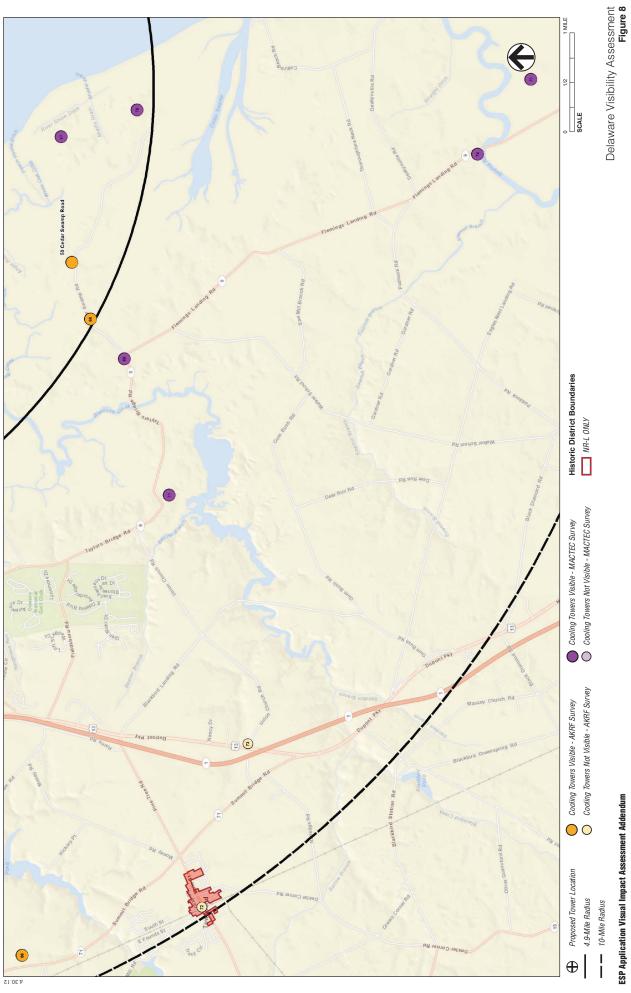




ESP Application Visual Impact Assessment Addendum



ESP Application Visual Impact Assessment Addendum



ESP Application Visual Impact Assessment Addendum

