

the dam, resulting in a rise in water level in navigation Pool 3 and increased flow over the Wisconsin embankments when there is head at the dam, creating a highly erosive situation. Corps planners have evidenced concern that the Wisconsin embankments could fail rapidly because of the weak soil conditions in that area, opening up a scour channel around Lock and Dam 3 that would cause an accidental drawdown of Pool 3 (USACE 2006a).

USACE recently published the Final Integrated General Reevaluation Report and Environmental Impact Statement for Lock and Dam 3 Mississippi River Navigation Safety and Embankments. The report offers a plan to improve navigation safety and strengthen the Wisconsin embankments at Lock and Dam 3 and assesses the environmental impacts of the proposed modifications. The improvements are intended to reduce the risk of accidental drawdown of Pool 3 (USACE 2006a).

Industries in the Vicinity of PINGP

The area within five miles of PINGP is devoted almost exclusively to agricultural pursuits. Outside of the City of Red Wing, very few industrial facilities exist.

The Treasure Island Resort and Casino owned by the Prairie Island Indian Community is located approximately one mile from the plant. In addition to a hotel, casino, and marina, Prairie Island Indian Community also operates a wastewater treatment facility. A gasoline station/convenience store is located approximately one-mile west-northwest from PINGP. Several factories, textile mills, and laboratories in Red Wing lie within 5 miles of PINGP (NMC 2007).

Other Generating Facilities in the Vicinity of PINGP

Two small hydroelectric facilities are located upstream of PINGP at Lock and Dam 1 and 2. The Ford Motor Company operates a hydroelectric plant at Lock and Dam 1. The City of Hastings operates another hydroelectric facility at Lock and Dam 2 (USACE 2006b).

Several Xcel Energy plants are located within 50 miles of PINGP. The closest plant to PINGP is Red Wing Steam Plant, a two-unit 20 MW plant in Red Wing that burns processed municipal solid waste, called refuse-derived fuel (RDF). Other Xcel plants within 50 miles include Hennepin Island, Inver Hills, West Faribault, Blue Lake, Black Dog, High Bridge, Riverside, and Allen S. King Generating Plants (Xcel Energy 2006). All run on coal, natural gas, or distillate fuel oil (Xcel Energy 2003), with the exception of Hennepin Island, which is a five-unit hydroelectric plant located at St. Anthony's falls in Minneapolis.

Dairyland Power Cooperative operates two coal-fired plants on the Mississippi River in Alma, Wisconsin, approximately 45 miles downstream of PINGP. The Alma Station is a five-unit plant with a capacity of 210 MW. The John P. Madgett Station (JPM), a single unit station, is just south of the Alma Station and has a generating capacity of 400 MW (Dairyland 2006).

CONCLUSIONS

Having evaluated environmental conditions in the vicinity of the PINGP site in this section and assessed potential impacts of license renewal in Chapter 4, NMC has not identified any obvious cumulative impacts and has not extended the discussion of potential cumulative impacts into Chapter 4, “Environmental Consequences of the Proposed Action and Mitigating Actions.”

**TABLE 2.2-1
USGS GAGING STATIONS**

USGS Station	River Mile	Drainage Area (mi ²)	Available Record
Prescott (#5344500)	811.4	44,800	1928-2005
Winona (#5378500)	725.7	59,200	1928-2005

**TABLE 2.2-2
MISSISSIPPI RIVER FLOW STATISTICS AT USGS GAGING STATIONS**

U.S.G.S. Station	Annual Mean	Highest Annual Mean	Lowest Annual Mean	Lowest Daily Mean
Prescott (#5344500)	18,380 cfs	38,540 cfs	4,367 cfs	1,380 cfs
Winona (#5378500)	29,590 cfs	56,850 cfs	9,742 cfs	2,250 cfs

cfs – cubic feet per second

**TABLE 2.2-3
DISCHARGE FLOW AT LOCK AND DAM 3**

Discharge Flow at Lock and Dam 3 (cubic feet per second)										
	1999	2000	2001	2002	2003	2004	2005	2006	Monthly Average	
January	10,790	8,974	9,110	10,932	9,229	6,661	9,913	17,790	10,425	
February	12,589	9,548	8,364	10,104	7,871	6,728	11,575	18,186	10,621	
March	17,897	22,219	9,910	11,497	13,210	15,055	14,668	20,774	15,654	
April	42,013	15,570	112,400	40,657	25,613	24,673	44,730	51,413	44,634	
May	47,426	18,839	82,655	33,974	42,194	19,432	30,977	40,997	39,562	
June	34,423	22,070	53,177	26,323	27,413	45,987	39,157	21,510	33,758	
July	27,548	21,052	23,981	34,597	32,739	19,510	21,897	7,800	23,641	
August	24,432	10,026	12,165	29,065	10,084	10,606	9,761	7,648	14,223	
September	18,013	6,687	9,193	24,513	7,087	19,227	15,180	6,453	13,294	
October	14,200	6,790	9,577	28,600	6,771	19,532	35,948	7,252	16,084	
November	13,243	17,463	11,040	18,467	8,167	21,943	19,170	7,133	14,578	
December	9,671	9,558	13,813	12,135	8,310	12,258	19,123	6,771	11,455	
Total/Year	272,245	168,796	355,385	280,864	198,688	221,612	272,099	213,727	247,927	
Annual Average for 1999-2006			247,927							
Annual Average for 2000-2005			249,574							

**TABLE 2.2-4
PINGP GROUNDWATER USE TABLE**

Year	Administration Building Non Permitted Well ^{b *}	Permit 690171 ^a Well 256120 - Installation 121 (Gallons)	Permit 690171 ^a Well 256121 - Installation 122 (Gallons)	Permit 785153 ^a Well 611076 - Steam Power CT Well (Gallons)	Permit 865114 ^a Well 402599 - Screen House (Gallons)	Permit 965042 - Training center ^a (Gallons)		Total Annual	
						Domestic	Irrigation	Gallons	Gallons per Minute
2005	563,100	20,833,300	19,933,600	6,830,210	12,055,695	1,128,000	818,200	61,599,005	117
2004		18,576,900	13,336,200	5,280,430	15,517,800	846,800	978,100	54,536,230	104
2003		10,648,800	14,248,900	4,163,190	10,969,500	647,000	1,237,000	41,914,390	80
2002		18,958,300	11,609,300	3,550,800	4,280,700	1,674,100	--	40,073,200	76
2001		16,974,300	16,372,060	3,663,190	7,267,700	2,971,700	--	47,248,950	90
2000		13,676,800	12,812,800	3,745,780	7,474,900	2,242,900	--	39,953,180	76
Total 2000-2005	563,100	99,668,400	88,312,860	27,233,600	57,566,295	9,510,500	3,033,300	285,324,955	
Ave/yr		16,611,400	14,718,810	4,538,933	9,594,383	1,585,083	505,550	47,554,159	91
gpm	1.07	32 gpm	28 gpm	9 gpm	18 gpm	3 gpm	1 gpm		91

References:

a. NSP 2001, NSP 2002, NSP 2003, NSP 2004, NSP 2005, NSP 2006

b. Bergland 2006

* Not included in Total Annual column due to lack of data.

**TABLE 2.3-1
THREATENED AND ENDANGERED SPECIES POTENTIALLY AFFECTED BY
OPERATION OF PINGP AND ASSOCIATED TRANSMISSION LINES¹**

Scientific Name	Common Name	Federal Status ²	State Status ² (Minnesota)	State Status ² (Wisconsin)
Mammals				
<i>Perognathus flavescens</i>	Plains Pocket Mouse	-	SSC	NA
Birds				
<i>Buteo lineatus</i>	Red-shouldered Hawk	-	SSC	NA
<i>Cygnus buccinator</i>	Trumpeter Swan	-	T	NA
<i>Dendroica cerulea</i>	Cerulean Warbler	-	SSC	NA
<i>Falco peregrinus</i>	Peregrine Falcon	-	T	NA
<i>Haliaeetus leucocephalus</i>	Bald Eagle ³	-	SSC	NA
<i>Lanius ludovicianus</i>	Loggerhead Shrike	-	T	NA
<i>Sterna forsteri</i>	Forster's Tern	-	SSC	NA
<i>Wilsonia citrina</i>	Hooded Warbler	-	SSC	NA
Amphibians and Reptiles				
<i>Acris crepitans</i>	Northern Cricket Frog	-	E	NA
<i>Apalone mutica</i>	Smooth Softshell Turtle	-	SSC	NA
<i>Clemmys insculpta</i>	Wood Turtle ³	-	T	NA
<i>Coluber constrictor</i>	Eastern Racer	-	SSC	NA
<i>Crotalus horridus</i>	Timber Rattlesnake	-	T	NA
<i>Emydoidea blandingii</i>	Blanding's Turtle ³	-	T	NA
<i>Pituophis catenifer</i>	Gopher Snake	-	SSC	NA
Fish				
<i>Acipenser fulvescens</i>	Lake Sturgeon	-	SSC	SC
<i>Alosa chrysochloris</i>	Skipjack Herring	-	SSC	E
<i>Ammocrypta asprella</i>	Crystal Darter	-	SSC	E
<i>Anguilla rostrata</i>	American Eel	-	-	SC
<i>Clinostomus elongatus</i>	Redside Dace	-	-	SC
<i>Cycleptus elongatus</i>	Blue Sucker	-	SSC	T
<i>Etheostoma asprigene</i>	Mud Darter	-	-	SC
<i>Etheostoma clarum</i>	Western Sand Darter	-	-	SC
<i>Fundulus diaphanus</i>	Banded Killifish	-	-	SC
<i>Hiodon alosoides</i>	Goldeye	-	-	E
<i>Ictiobus niger</i>	Black Buffalo	-	SSC	T
<i>Macrhybopsis aestivalis</i>	Shoal Chub	-	-	T
<i>Macrhybopsi storeiana</i>	Silver Chub	-	-	SC
<i>Moxostoma carinatum</i>	River Redhorse	-	-	T
<i>Notropis amnis</i>	Pallid Shiner	-	SSC	E
<i>Notropis texanus</i>	Weed Shiner	-	-	SC
<i>Opsopoeodus emiliae</i>	Pugnose Minnow	-	-	SC
<i>Polyodon spathula</i>	Paddlefish	-	T	T
Mussels				
<i>Actinonaias ligamentina</i>	Mucket	-	T	
<i>Alasmidonta marginata</i>	Elktoe	-	T	SC
<i>Arcidens confragosus</i>	Rock Pocketbook	-	E	T
<i>Cumberlandia monodonta</i>	Spectaclecase	C	T	E

TABLE 2.3-1 (CONTINUED)
THREATENED AND ENDANGERED SPECIES POTENTIALLY AFFECTED BY
OPERATION OF PINGP AND ASSOCIATED TRANSMISSION LINES¹

Scientific Name	Common Name	Federal Status ²	State Status ² (Minnesota)	State Status ² (Wisconsin)
Mussels (continued)				
<i>Cyclonaias tuberculata</i>	Purple Wartyback	-	T	E
<i>Ellipsaria lineolata</i>	Butterfly	-	T	E
<i>Elliptio crassidens</i>	Elephant-ear	-	E	E
<i>Elliptio dilatata</i>	Spike	-	SSC	-
<i>Epioblasma triquetra</i>	Snuffbox	-	T	E
<i>Fusconaia ebena</i>	Ebonysshell	-	E	E
<i>Lampsilis higginsii</i>	Higgins Eye ³	E	E	E
<i>Lampsilis teres</i>	Yellow/Slough Sandshell	-	E	E
<i>Lasmigona costata</i>	Fluted-shell	-	SSC	-
<i>Ligumia recta</i>	Black Sandshell	-	SSC	-
<i>Megaloniais nervosa</i>	Washboard	-	T	SC
<i>Obovaria olivaria</i>	Hickory nut	-	SSC	-
<i>Plethobasus cyphus</i>	Sheepnose (bullhead)	C	E	E
<i>Pleurobema sintoxia</i> fka <i>P. coccineum</i>	Round Pigtoe	-	T	SC
<i>Quadrula fragosa</i>	Winged Mapleleaf	E	E	E
<i>Quadrula metanevra</i>	Monkeyface	-	T	T
<i>Quadrula nodulata</i>	Wartyback	-	E	-
<i>Tritogonia verrucosa</i>	Pistolgrip (buckhorn)	-	T	T
Insects				
<i>Aflexia rubranura</i>	Red Tailed Prairie Leafhopper	-	SSC	-
<i>Gompherus externus</i>	Plains clubtail	-	-	SC
<i>Ophiogomphus smithi</i>	Sand snaketail	-	-	SC
<i>Neurocordulia molesta</i>	Smoky shadowfly	-	-	SC
<i>Speyeria idalia</i>	Regal Fritillary	-	SSC	-
<i>Stylurus plagiatus</i>	Russet-tipped clubtail	-	-	SC
Plants				
<i>Agalinis auriculata</i>	Eared False Foxglove	-	E	NA
<i>Aristida tuberculosa</i>	Sea-beach Needlegrass	-	SSC	NA
<i>Arnoglossum plantagineum</i>	Tuberous Indian-plantain	-	T	NA
<i>Asclepias amplexicaulis</i>	Clasping Milkweed	-	SSC	NA
<i>Asclepias sullivantii</i>	Sullivant's Milkweed	-	T	NA
<i>Besseyia bullii</i>	Kitten-tails	-	T	NA
<i>Botrychium oneidense</i>	Blunt-lobed Grapefern	-	E	NA
<i>Botrychium rugulosum</i>	St. Lawrence Grapefern	-	T	NA
<i>Carex sterilis</i>	Sterile Sedge	-	T	NA
<i>Cirsium hillii</i>	Hill's Thistle	-	SSC	NA
<i>Cladium mariscoides</i>	Twig-rush	-	SSC	NA
<i>Cristatella jamesii</i>	James' Polanisia	-	E	NA
<i>Cypripedium candidum</i>	Small White Lady's-slipper	-	SSC	NA

**TABLE 2.3-1 (CONTINUED)
THREATENED AND ENDANGERED SPECIES POTENTIALLY AFFECTED BY
OPERATION OF PINGP AND ASSOCIATED TRANSMISSION LINES¹**

Scientific Name	Common Name	Federal Status ²	State Status ² (Minnesota)	State Status ² (Wisconsin)
Plants (continued)				
<i>Eleocharis rostellata</i>	Beaked Spike-rush	-	T	NA
<i>Eryngium yuccifolium</i>	Rattlesnake-master	-	SSC	NA
<i>Erythronium propullans</i>	Dwarf trout lily ³	E	E	NA
<i>Hudsonia tomentosa</i>	Beach-heather	-	SSC	NA
<i>Juniperus horizontalis</i>	Creeping Juniper	-	SSC	NA
<i>Lespedeza leptostachya</i>	Prairie bush-clover ³	T	T	NA
<i>Lesquerella ludoviciana</i>	Bladder Pod	-	E	NA
<i>Minuartia dawsonensis</i>	Rock Sandwort	-	SSC	NA
<i>Oenothera rhombipetala</i>	Rhombic-petaled Evening Primrose	-	SSC	NA
<i>Opuntia macrorrhiza</i>	Plains Prickly Pear	-	SSC	NA
<i>Orobanche fasciculata</i>	Clustered Broomrape	-	SSC	NA
<i>Panax quinquefolius</i>	American Ginseng	-	SSC	NA
<i>Rhynchospora capillacea</i>	Hair-like Beak-rush	-	T	NA
<i>Scleria verticillata</i>	Whorled Nut-Rush	-	T	NA
<i>Trillium nivale</i>	Snow Trillium	-	SSC	NA
<i>Valeriana edulis ciliata</i>	Valerian	-	T	NA

¹ Source of County Occurrence: FWS 2007a, MDNR 2007a, MDNR 2007b, WDNR 2007

² E = Endangered, T = threatened, C = Candidate for federal listing, SSC = Minnesota Species of Special Concern, SC = Wisconsin Species of Concern, - = not listed, NA – Not applicable because only those Wisconsin state-listed species present in the Mississippi River were identified in this analysis.

³ Identified as species of concern by the Prairie Island Indian Community (PIIC 2008).

**TABLE 2.5-1
DECENNIAL POPULATIONS, PROJECTIONS, AND GROWTH RATES**

Year	Goodhue County		Dakota County		Minnesota		Pierce County		Wisconsin	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
1980 ^a	38,749	N/A	194,279	N/A	4,075,970	N/A	31,149	N/A	4,705,767	N/A
1990 ^a	40,690	5.01%	275,227	41.67%	4,375,099	7.34%	32,765	5.19%	4,891,769	3.95%
2000 ^b	44,127	8.45%	355,904	29.31%	4,919,479	12.44%	36,804	12.33%	5,363,675	9.65%
2010 ^{c,d}	47,140	6.83%	422,990	18.85%	5,452,500	10.83%	39,818	8.19%	5,751,470	7.23%
2020 ^{c,d}	50,430	6.98%	470,460	11.22%	5,909,400	8.38%	42,655	7.12%	6,110,878	6.25%
2030 ^{c,d}	52,890	4.88%	501,020	6.50%	6,268,200	6.07%	45,850	7.49%	6,415,923	4.99%

a. USCB 1995a, 1995b
 b. USCB 2000b
 c. MDA 2002
 d. WDA 2004

**TABLE 2.5-2
BLOCK GROUPS WITHIN 50 MILES OF PINGP WITH MINORITY OR LOW-INCOME POPULATIONS MORE THAN
20% GREATER THAN THE STATE PERCENTAGE**

County Name	State Name	Number of Block Groups	Black	American Indian or Alaskan Native	Asian	Native Hawaiian or Other Pacific Islander	Some Other Race	Multi-Racial	Aggregate	Hispanic	Low-Income Households	Total Population*
Anoka	Minnesota	127	0	0	0	0	0	0	0	0	0	142066
Carver	Minnesota	17	1	0	0	0	0	0	1	1	0	28911
Chisago	Minnesota	4	0	0	0	0	0	0	0	0	0	1334
Dakota	Minnesota	194	0	0	0	0	0	0	0	0	0	355904
Dodge	Minnesota	15	0	0	0	0	0	0	0	0	0	15482
Goodhue	Minnesota	37	0	0	0	0	0	0	0	0	0	44127
Hennepin	Minnesota	892	111	3	11	0	5	1	196	32	61	956280
Le Sueur	Minnesota	6	0	0	0	0	0	0	0	0	0	6607
Olmsted	Minnesota	109	1	0	0	0	0	0	3	0	2	114388
Ramsey	Minnesota	401	16	0	43	0	5	0	109	14	23	511035
Rice	Minnesota	43	0	0	0	0	0	0	0	2	0	56455
Scott	Minnesota	50	0	0	0	0	1	0	1	1	0	83621
Steele	Minnesota	21	0	0	0	0	0	0	0	0	0	27123
Wabasha	Minnesota	19	0	0	0	0	0	0	0	0	0	21610
Waseca	Minnesota	1	0	0	0	0	0	0	0	0	0	84
Washington	Minnesota	117	2	0	0	0	0	0	2	0	0	201020
Winona	Minnesota	3	0	0	0	0	0	0	0	0	0	1579
Barron	Wisconsin	1	0	0	0	0	0	0	0	0	0	193
Buffalo	Wisconsin	12	0	0	0	0	0	0	0	0	0	8867
Dunn	Wisconsin	31	0	0	0	0	0	0	0	0	3	34979

**TABLE 2.5-2 (CONTINUED)
BLOCK GROUPS WITHIN 50 MILES OF PINGP WITH MINORITY OR LOW-INCOME POPULATIONS MORE THAN 20% GREATER THAN THE STATE PERCENTAGE.**

County Name	State Name	Number of Block Groups	Black	American Indian or Alaskan Native	Asian	Native Hawaiian or Other Pacific Islander	Some Other Race	Multi-Racial	Aggregate	Hispanic	Low-Income Households	Total Population*
Eau Claire	Wisconsin	3	0	0	0	0	0	0	0	0	0	4745
Pepin	Wisconsin	7	0	0	0	0	0	0	0	0	0	7213
Pierce	Wisconsin	26	0	0	0	0	0	0	0	0	0	36804
Polk	Wisconsin	16	0	0	0	0	0	0	0	0	0	14015
St. Croix	Wisconsin	45	0	0	0	0	0	0	0	0	0	63155
TOTALS		2197	131	3	54	0	11	1	312	50	89	2733326
Minnesota Percentages			3.55	1.14	2.94	0.04	1.36	1.71	10.73	2.96	7.91	
Wisconsin Percentages			5.75	0.89	1.68	0.03	1.60	1.26	11.21	3.64	8.38	

Shading indicates that the county is completely contained within the 50-mile radius.

*The total population listed for each county is the population for the portion of the county that falls within the 50-mile radius.

**TABLE 2.6-1
GOODHUE COUNTY MAJOR EMPLOYERS**

Employer	Community	Products/Services	Employee Count
Treasure Island Casino	Red Wing	Gambling Industries	1,500
Red Wing Shoe Company	Red Wing	Footwear Manufacturing	724
Xcel Energy	Red Wing	Nuclear Electric Power Generation	611
Fairview Red Wing Medical Center	Red Wing	General Medical and Surgical Hospitals	585
Independent School District #256	Red Wing	Elementary and Secondary Schools	500
Norwood	Red Wing	Other Miscellaneous Manufacturing	380

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**TABLE 2.6-2
DAKOTA COUNTY MAJOR EMPLOYERS**

Employer	Community	Products/Services	Employee Count
West Information Publishing Group	Eagan	Newspaper, Periodical, Book, & Directory Publishers	6,000
Rosemount School District #196	Rosemount	Elementary and Secondary Schools	4,000
Blue Cross and Blue Shield	Eagan	Insurance Carriers	3,300
Northwest Airlines	Eagan	Scheduled Air Transportation	2,300
Apple Valley Schools-ISD #196	Apple Valley	Elementary and Secondary Schools	1,913
Dakota County	Hastings	Executive and Legislative Offices, Combined	1,849
Burnsville Public Schools-ISD #191	Burnsville	Elementary and Secondary Schools	1,600
Lockheed-Martin Tactical Defense Sys	Eagan	Computer and Peripheral Equipment Manufacturing	1,600
Lakeville Public School District #194	Lakeville	Elementary and Secondary Schools	1,596
US Postal Service	Eagan	Postal Service	1,570
United Parcel Service	Eagan	Couriers	1,435
Fairview Ridges Hospital	Burnsville	General Medical and Surgical Hospitals	1,400
Goodrich Sensor Systems	Burnsville	Computer and Peripheral Equipment Manufacturing	1,150
CHS Cooperatives	Inver Grove Heights	Pesticide & Other Agricultural Chemical Mfg.	1,000
Coca-Cola Bottling Company	Eagan	Beverage Manufacturing	900
Flint Hills	Rosemount	Petroleum and Coal Products Manufacturing	850
Sportsman's Guide	South St. Paul	Mail-Order Houses	800
Regina Medical Complex	Hastings	General Medical and Surgical Hospitals	730
Ecolab Research Facility	Eagan	Soap and Other Detergent Mfg.	700
Wells Fargo Mortgage	Eagan	Electronics and Other Appliance Stores	700
Ryt-Way Industries, Inc.	Lakeville	Food Service Contractors	688
West St. Paul, Mendota Heights, Egan – ISD #197	West St. Paul	Elementary and Secondary Schools	651
Northern Hydraulics, Inc.	Burnsville	Industrial Machinery Manufacturing	600
School District 200	Hastings	Elementary and Secondary Schools	600
Dakota County	West St. Paul	Admin. Of Human Resource Programs	577
Smead Manufacturing Co	Hastings	Office Supplies and Stationary Stores	575
Pepsi-Cola Bottling Company	Burnsville	Beverage Manufacturing	550
Prime Therapeutics	Eagan	Management, Scientific, & Technical Consulting Services	550
Farmington Public Schools-ISD #192	Farmington	Elementary and Secondary Schools	540
Inver Grove Hts School District #199	Inver Grove Heights	Elementary and Secondary Schools	525
Northland Insurance Company	Mendota Heights	Insurance Carriers	456

**TABLE 2.6-2 (CONT)
DAKOTA COUNTY MAJOR EMPLOYERS**

Employer	Community	Products/Services	Employee Count
Federal Aviation Administration	Farmington	Admin. Of Economic Programs	450
South St. Paul School District #6	South St. Paul	Elementary and Secondary Schools	450
Travel Tags	Inver Grove Heights	Comm. Flexographic Printing	430
Inver Hills Community College	Inver Grove Heights	Colleges, Universities, and Prof. Schools	425
ConAgra Store Brands	Lakeville	Breakfast Cereal Mfg.	400
Freightmasters, Inc.	Eagan	General Freight Trucking	400
Yellow Freight System, Inc.	Burnsville	Support Activities for Road Transportation	400
Skyline	Eagan	Specialized Design Services	400
Target	West St. Paul	Department Stores	400
Southview Acres Health Care	West St. Paul	Nursing Care Facilities	375
Waterous Co.	South St. Paul	Pump and Pumping Equip. Man.	375
Intek Plastics, Inc.	Hastings	Plastics Material and Resin Mfg.	350
Transport Corp of America	Eagan	General Freight Trucking	350
Dakota County	Apple Valley	Executive, Legislative, & Other Gen. Govt. Support	349
Best Brands	Eagan	Other Food Manufacturing	330
Delta Dental	Eagan	Insurance Carriers	330
CUB Foods	Burnsville	Department Stores	300
Evergreen Industries	Inver Grove Heights	Nursery and Tree Prod.	300
Frontier Communications of MN	Burnsville	Wired Telecommunications Carriers	300
Genz-Ryan	Burnsville	Plumbing, Heating, & Air Conditioning Contractors	300
Wal-Mart	West St. Paul	Department Stores	300

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**TABLE 2.6-3
PIERCE COUNTY MAJOR EMPLOYERS**

Employer	Products/Services	Employee Count
University of Wisconsin-River Fall	Colleges and Universities	500-999
School District of River Falls	Elementary and Secondary Schools	500-999
Pierce County	Executive and Legislative Offices, Combined	250-499
Mentor Management, Inc.	Residential Mental Retardation Facilities	250-499
Ellsworth Community School District	Elementary and Secondary Schools	250-499

State of Wisconsin 2006

**TABLE 2.7-1
PINGP TAX INFORMATION 2001-2006**

Year	Goodhue County Tax Revenues ^a (\$)	PINGP Property Tax Paid to Goodhue County (\$)	Percent of Goodhue County Revenues	City of Red Wing Tax Revenues ^b (\$)	PINGP Property Tax Paid to City of Red Wing (\$)	Percent of City of Red Wing Revenues	School District 256 Tax Revenues ^c (\$)	PINGP Property Tax Paid to School District 256 (\$)	Percent of School District 256 Revenues
2001	21,047,515	5,780,345	27.5	8,897,957	4,654,701	52.3	14,781,300	6,611,339	44.7
2002	20,582,802	4,591,222	22.3	10,898,020	4,812,822	44.2	6,511,963	2,475,453	38.0
2003	21,069,501	4,358,238	20.7	11,418,308	4,764,870	41.7	5,688,503	2,024,973	35.6
2004	21,680,726	4,043,443	18.6	11,519,238	4,515,593	39.2	6,902,380	2,110,570	30.6
2005	22,266,086 ^d	3,702,828	16.6	10,919,238	3,968,674	36.4	6,691,909	1,840,068	27.5
2006	Not yet published	3,747,250	--	11,603,151	4,318,291	37.2	6,943,346	1,979,347	28.5

a. Hove 2006
b. Schlichting 2007
c. MDE 2007
d. State of Minnesota 2006

**TABLE 2.8-1
STATE-REGULATED MUNICIPAL WATER SYSTEMS IN THE THREE-COUNTY
AREA**

System Name	Permitted Annual Average Withdrawal (MGY) ^b	Reported Annual Average Withdrawal 2000 – 2004 (MGY) ^b	Population Served – Groundwater and Surface Water ^{b, c}
Groundwater			
Dakota County, MN			
Apple Valley	30,000	1,834 – 2,331	48,000
Burnsville	51,200	2,317 – 3,018	62,200
Eagan	51,000	2,335 - 3,289	67,051
Empire Township	104	39 – 53	1,300
Farmington	2,650	374 – 551	13,000
Hampton	44	15 – 25	650
Hastings	6,000	790 – 963	21,631
Inver Grove Heights	6,250	973 – 1,116	33,000
Lakeville	37,380	1,698 – 2,183	51,000
New Trier	10	3.1 – 3.6	115
Randolph	17.4	11.3 – 15.8	351
Rosemont	4,728	537 – 765	21,000
South Saint Paul	8,400	1,064 – 1,234	20,303
Vermillion	50	20.5 – 27.8	442
Dakota County Municipal Total	197,833 MGY (542 MGD)	12,011 - 15,575 MGY (32.9 – 42.7 MGD)	
Dakota County excess capacity (542 MGD – 42.7 MGD) is 499.3 MGD			
Goodhue County, MN^a			
Bellechester	14.6	4.1 – 8	172
Cannon Falls	1,040	194 – 253	3,700
Dennison	13	5 – 8.3	168
Goodhue	80	29 – 33	778
Kenyon	144	54 – 68	1,661
Pine Island	332	94 – 110	2,337
Red Wing	4,725	643 – 710	16,100
Wanamingo	120	32 – 43	1,007
Zumbrota	660	168 – 189	3,004
Goodhue County Municipal Total	7,129 MGY (19.5 MGD)	1,223 – 1,422 MGY (3.4 – 3.9 MGD)	
Goodhue County excess capacity (19.5 MGD – 3.9 MGD) is 15.6 MGD.			

TABLE 2.8-1 (CONTINUED)
STATE-REGULATED MUNICIPAL WATER SYSTEMS IN THE THREE-COUNTY AREA

System Name	Total Pump Design Yield (MGY) ^d	Reported Annual Average Withdrawal 2005 (MGY) ^d	Population Served – Groundwater and Surface Water ^c
Pierce County, WI^c			
Bay City	135	15	571
Ellsworth	368	101	2,844
Elmwood	752	22	841
Maiden Rock	184	4	121
Prescott	1,314	171	3,645
River Falls	2,597	396	12,560
Spring Valley	258	38	1,271
Pierce County Municipal Total	5,608 MGY (15.4 MGD)	747 MGY (2 MGD)	
Pierce County excess capacity (15.4 MGD – 2 MGD) is 13.4 MGD.			
Total For Dakota, Goodhue and Pierce Counties	210,570 MGY (577 MGD)	17,742 MGY¹ (48.6 MGD)	
Excess capacity for these three counties (577 MGD – 48.6 MGD) is 528.4 MGD.			

Sources: a. EPA 2006f; b. MN DNR 2005a, c. WDNR 2006, d. WIPSC 2006

Note 1) Maximum withdrawal data value for Dakota and Goodhue Counties used to obtain the total for Dakota, Goodhue, and Pierce Counties.

MGY = Million gallons per year

MGD = Million gallons per day

**TABLE 2.8-2
TRAFFIC STATISTICS FOR MOST LIKELY ROUTES TO THE PINGP SITE**

Figure 2.8-1 Locations	Goodhue County Road Segments	Number of Lanes ^a	Mn DOT Road Classification ^a	LOS for Road/Highway Segment ^a	Road/Highway Capacity (vehicles per day) ^a	Average Annual Daily Traffic (AADT) for 2002/2003 ^a
1	County Road 18 (just north of intersection with Sturgeon Lake Road)	2	Rural County Road	N/A	12,000	6,200
2	County Road 18 Segment (south of intersection with Sturgeon Lake Road and north of County Road 19)	2	Rural County Road	N/A	12,000	7,400
3	County Road 18 (between County Road 19 and County Road 46, Mt. Carmel Rd.)	2 plus climbing lane	Rural County Road	N/A	12,000 +	6,000
4	Sturgeon Lake Road	4	Urban Undivided County Road	N/A	20,000	11,500
5	County Road 19 (between County Road 18 and U.S. Highway 61)	2	Rural County Road	N/A	5,000	360
6	County Road 31 (between County Road 18 and U.S. Highway 61)	2	Rural County Road	N/A	10,000	490
7	County Road 7 (just south of intersection with U.S. Highway 61)	2	County Road	N/A	N/A	445
8	U.S. Highway 61 (between County Road 18 and State Road 19)	4	Rural Divided U.S Highway	N/A	40,000	14,400
9	U.S. Highway 61 (between State Road 316 and County Road 19)	4	Rural Divided U.S Highway	N/A	40,000	10,800

a. Bjornstad 2006
N/A = Not available or not provided

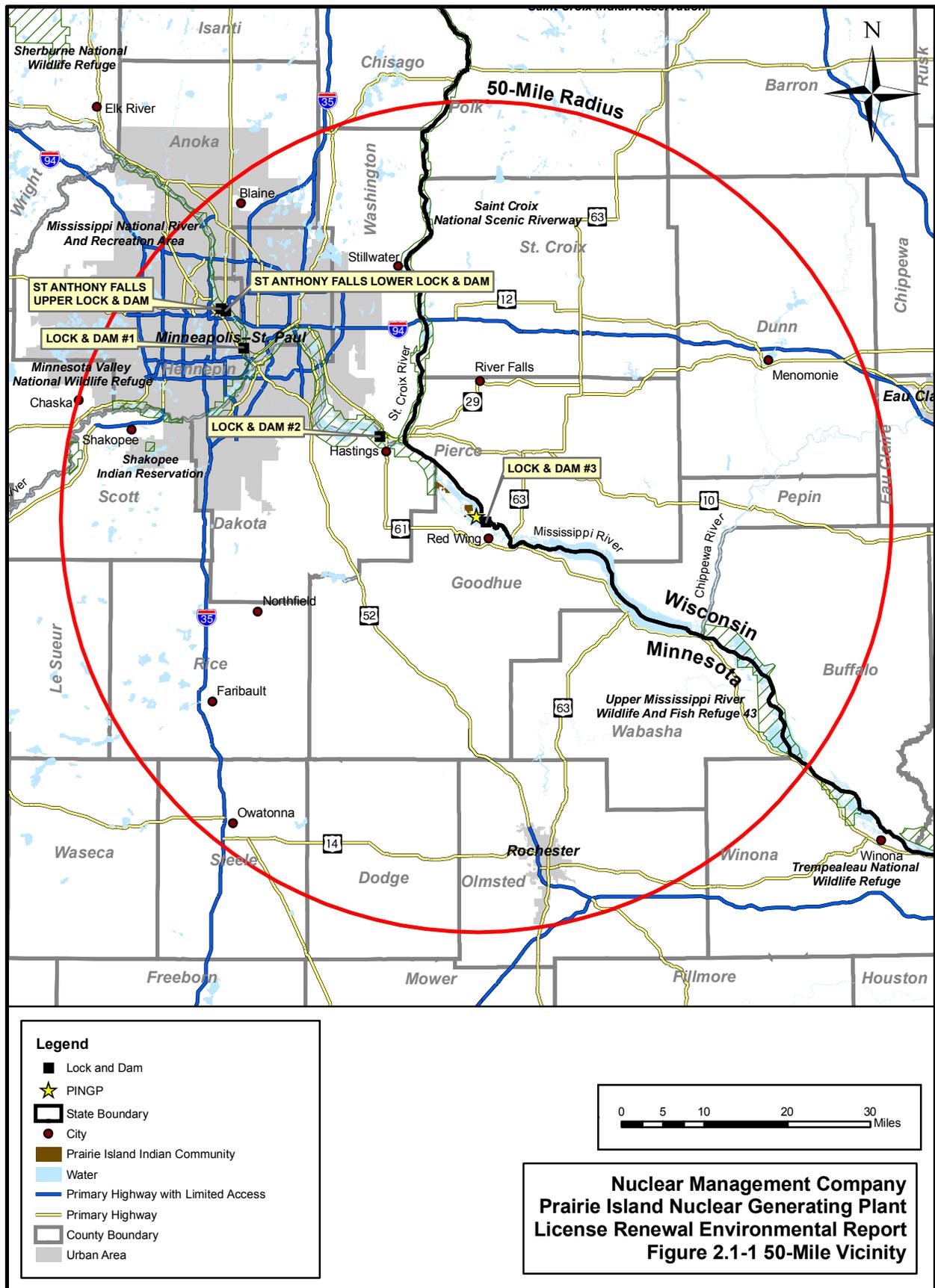
**TABLE 2.10-1
SITES LISTED IN THE NATIONAL REGISTER OF HISTORIC PLACES THAT FALL
WITHIN A 6-MILE RADIUS OF PINGP**

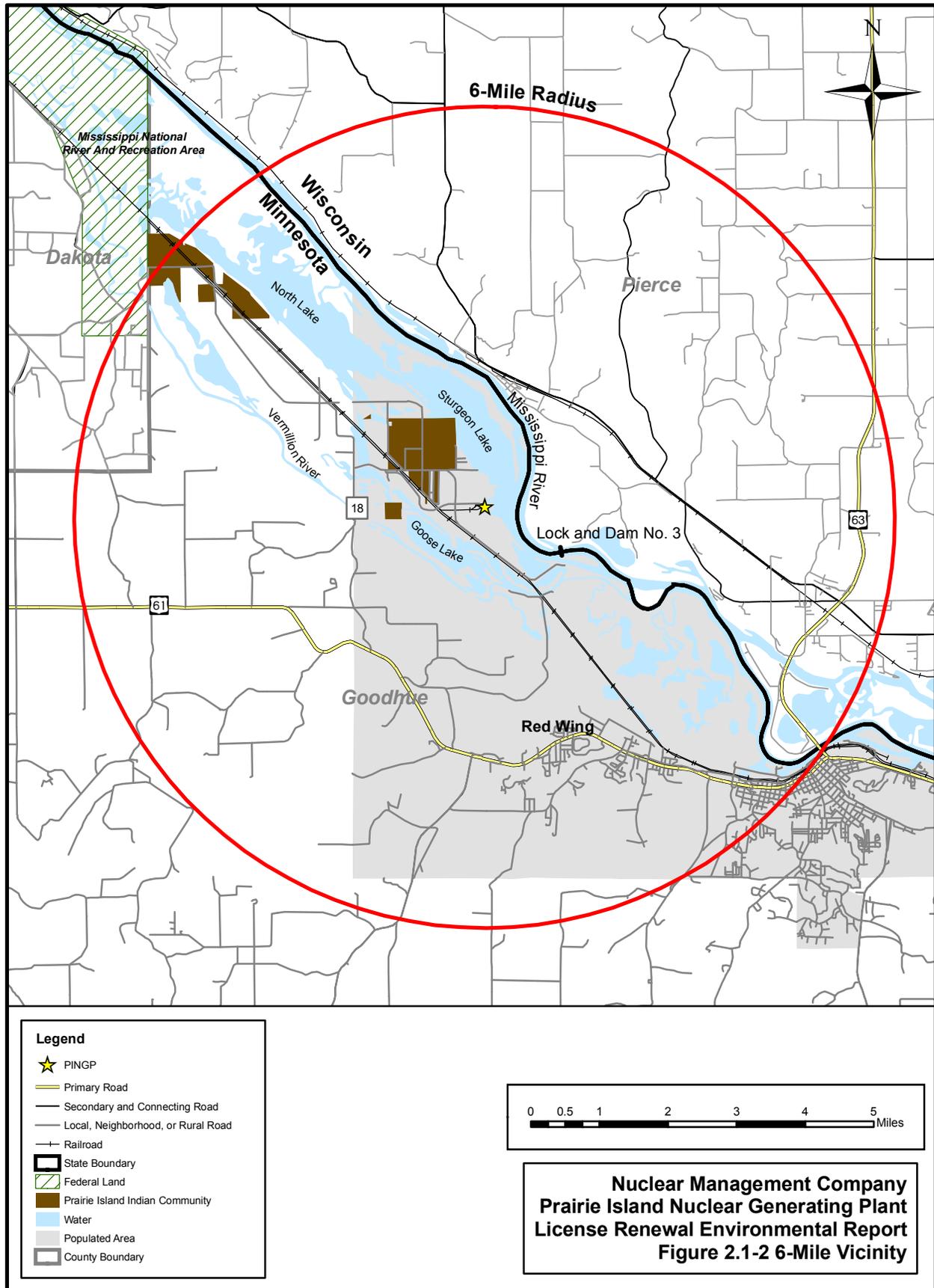
Site Name	Location
Goodhue County, Minnesota	
Alexander Anderson Estate -- Tower View	West of Red Wing on U.S. 61, Red Wing
Barn Bluff	Junction of U.S. 61 and U.S. 63, Red Wing
Bartron Site	Address restricted, Red Wing
Bridge No. 12 (Bullard Cr. Bridge)	Twp. Road 43 over Bullard Cr., Red Wing
Carlson Lime Kiln	E. 5th Street, Red Wing
Chicago Great Western Depot	W. Main and Fulton Streets, Red Wing
Cross of Christ Lutheran Church	MN 61, Red Wing
Diamond Round Barn	MN 61, Red Wing
District No. 20 School	MN 58, Red Wing
Fort Sweeney Site	Address restricted, Red Wing
Fryk (E.J.) Barn	Off MN 61, Red Wing
Gladstone Building	309 Bush Street, Red Wing
Hewitt (Dr. Charles) Laboratory	216 Dakota Street, Red Wing
Hoyt (E.S.) House	300 Hill Street, Red Wing
Immanuel Lutheran Church	Off MN 58, Red Wing
Kappel Wagon Works	221 W. 3rd Street, Red Wing
Keystone Building	409 Main Street, Red Wing
Lawther (James L.) House	927 W. 3rd Street, Red Wing
Mandata to Wabasha Military Road, Cannon River Section	Cannon Bottom Road, Red Wing
Minnesota State Training School	E. 7th Street, Red Wing
Minnesota Stonewear Company	1997 W. Main Street, Red Wing
Nelson (Julia B.) House	219 5th Street, Red Wing
Pratt – Talbott House	706 W. 4th Street, Red Wing
Red Wing City Hall	W. 4th Street, Red Wing
Red Wing Iron Works	401 Levee Street, Red Wing
Red Wing Mall Historic District	Along East and West Avenues and Broadway between 6th St. and levee
Sheldon Memorial Auditorium	443 W. 3rd St., Red Wing
Sheldon (T. B.) House	805 W. 4th Street, Red Wing
Spring Creek Petroglyphs	Address restricted, Red Wing
St. James Hotel	Bush and Main Streets, Red Wing
St. James Hotel and Buildings (boundary increase)	Bush and Main Streets, Red Wing

TABLE 2.10-1 (CONTINUED)
SITES LISTED IN THE NATIONAL REGISTER OF HISTORIC PLACES THAT FALL
WITHIN A 6-MILE RADIUS OF PINGP

Site Name	Location
Towne-Akenson House	1121 W. 3rd St., Red Wing
Vasa Historic District	Off MN 19, Red Wing
Wallauer Farmhouse	MN 58, Red Wing
Pierce County, Wisconsin	
Diamond Bluff – Mero Mound Site	Address restricted, Diamond Bluff
Mero Archaeological District	Address restricted, Diamond Bluff

Source: NPS 2006c.





**Nuclear Management Company
 Prairie Island Nuclear Generating Plant
 License Renewal Environmental Report
 Figure 2.1-2 6-Mile Vicinity**