



LOUP POWER DISTRICT

"SERVING YOU ELECTRICALLY"

GENERAL OFFICE

2404 15th Street
P.O. Box 988
Columbus, NE 68602-0988

Phone:

402/564-3171

Fax:

402/564-0970

Via Electronic Filing

October 16, 2008

Honorable Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, DC 20426

Subject: Loup River Hydroelectric Project
FERC Project No. 1256
Notice of Intent to File and Pre-Application Document

Dear Secretary Bose:

Loup River Public Power District (Loup Power District or District) herein electronically files its Notice of Intent (NOI) to file an Application for New License for the Loup River Hydroelectric Project, FERC Project No. 1256 (Project). The District is the owner, operator, and original licensee of the Project. The existing license was effective on December 1, 1982, for a term ending April 15, 2014. Loup Power District is utilizing the Integrated Licensing Process (ILP) for this relicensing effort. Therefore, pursuant to 18 CFR § 5.6, the District is concurrently filing its Project Pre-Application Document (PAD) with its NOI.

The PAD is comprised of two public volumes (including appendices) and one privileged volume. The PAD contains all of the information required by 18 CFR § 5.6(c) and (d). It is being concurrently distributed (in hard copy or electronic format) to federal and state resource agencies, local governments, and Native American tribes in conformance with 18 CFR § 5.2(a) and § 5.6(a) (1) and (2). A distribution list of those parties is attached. Other parties known to be potentially interested in the relicensing proceeding are being notified by mail that the documents are available for viewing on the District's website or at the District's office in Columbus, Nebraska.

At this time, and pursuant to 36 CFR § 800.2(c)(4), the District requests that the Commission authorize Loup Power District to initiate consultation, as described in Section 106 of the National Historic Preservation Act, with the Nebraska State Historic Preservation Office (SHPO) and others regarding relicensing of the Project. Please note that 36 CFR § 800.2(c)(4) requires that the Commission notify the SHPO and other consulting parties in writing (or email) if this authorization is granted.

Also at this time, pursuant to 50 CFR § 402.08, the District requests that the Commission designate Loup Power District as its non-federal representative to conduct informal consultation with the U.S. Fish and Wildlife Service and to prepare a biological assessment(s) as necessary to comply with Section 7 of the Endangered Species Act.

All materials related to the current Project license as well as materials related to this NOI and PAD are available for inspection at the office of Loup Power District, 2404 15th Street, Columbus, NE 68602. A notice of this filing will be published in the *Columbus Telegram*, *Genoa Leader-Times*, *Nance County Journal*, and *Humphrey Democrat*. The NOI and PAD will also be available at the following public libraries and on the website established by the District for the relicensing of the Project, www.loup.com/relicense, and in accordance with the conditions of the Information Distribution Protocol contained within the PAD.

Columbus Public Library
2504 14th Street
Columbus, Nebraska

Genoa City Library
421 Willard Avenue
Genoa, Nebraska

The District looks forward to working with the Commission and all interested parties on relicensing the Loup River Hydroelectric Project. If you have any questions regarding this letter, the NOI, or the PAD, please contact me at (402) 564-3171 ext. 268.

Respectfully submitted,



Neal D. Suess
President/CEO
Loup Power District

Attachments: Notice of Intent to File for a New License
Pre-Application Document – Loup River Hydroelectric Project
Distribution List

Federal Government / Representatives

Advisory Council on Historic Preservation*

Don Klima
Attn: John Eddins
Old Post Office Building
1100 Pennsylvania Avenue NW, Suite 803
Washington DC 20004

Bureau of Land Management

Don Simpson
State Director
PO Box 1828
Cheyenne, WY 82003

Bureau of Reclamation

Mike Ferguson
Great Plains Regional Office
P.O. Box 36900
Billings, MT 59107-6900

Department of Interior

Office of Environmental Policy and
Compliance
Robert F. Stewart
Regional Environmental Officer
Denver Federal Center
P.O. Box 25007, D-108
Denver, CO 80225-0007

Department of Interior

Office of Environmental Affairs
Attn: Shawn Alam
Willie R. Taylor
Director
1849 C St. NW ROOM2353
Washington, DC

Environmental Protection Agency

Region 7
Joe Cothorn
NEPA Team Leader
901 N. 5th Street
Kansas City, KS 66101

Federal Emergency Management Agency*

Regional Office
Ken Sessa
Environmental and Historic Preservation
9221 Ward Parkway, Suite 300
Kansas City, MO 64114-3372

Federal Energy Regulatory Commission*

Regional Office
Peggy Harding
Regional Engineer
230 South Dearborn Street, Room 3130
Chicago, IL 60604

Fish and Wildlife Service

Robert Harms
Biologist
Federal Building
203 West Second Street
Grand Island, NE 68801

Forest Service*

Region 2
Rick Cables
Regional Forester
740 Simms Street
Golden, CO 80401-4720

National Park Service Field Office

Randy Thoreson
Midwest Region / Outdoor Recreation
Planner
111 E. Kellogg Blvd, Suite 105
St. Paul, MN 55101

U.S. Army Corps of Engineers*

Barb Friskopp
1430 Central Avenue
Kearney, NE 68847

U.S. Geological Survey

Jason Alexander, Hydrologist
5231 South 19th
Lincoln, NE 68512

* Provided electronically per request.

U.S. House of Representatives

First District, Nebraska
Fremont Office
Jeff Fortenberry, Member of Congress
P.O. Box 377
629 Broad Street
Fremont, NE 68026

U.S. Senate

Lincoln Office
Chuck Hagel
294 Federal Building
100 Centennial Mall North
Lincoln, NE 68508

U.S. House of Representatives

Third District, Nebraska
Grand Island Office
Adrian Smith
Member of Congress
1811 West Second Street
Suite 105
Grand Island, NE 68803

U.S. Senate

Lincoln Office
Ben Nelson
440 North 8th Street
Suite 120
Lincoln, NE 68508

State Government

**Conservation and Survey Division
Geological Survey***

Director
Hardin Hall, 3310 Holdrege Street
University of Nebraska-Lincoln
Lincoln, NE 68583

Nebraska Department of Agriculture*

Greg Ibach
Director
301 Centennial Mall South
PO Box 94947
Lincoln, NE 68509

Natural Resources Conservation Service*

Steve Chick
State Conservationist
Federal Building, Room 152
100 Centennial Mall North
Lincoln, NE 68508

**Nebraska Department of Environmental
Quality**

John Bender
Water Quality Standards Coordinator
PO Box 98922
Lincoln, NE 68509

Nebraska Attorney General's Office

Agriculture, Environmental and Natural
Resources
Justin Lavene
Special Counsel to the Attorney General
2115 State Capitol Drive
Lincoln, NE 68509

**Nebraska Department of Health and
Human Services**

Northeast Regional Office
David Jundt
Water Supply Specialist
304 North 5th St. Suite C
Norfolk, NE 68701

* Provided electronically per request.

Nebraska Department of Natural Resources

Jean Angell
Legal Counsel
State Office Building, 4th Floor
300 Centennial Mall South; P.O. Box 4676
Lincoln, NE 68509

Nebraska Emergency Management Agency*

Al Bendt
1300 Military Road
Lincoln, NE 68508

Nebraska Game and Parks Commission

Frank Albrecht
Assistant Director of Administration
2200 N. 33rd
Lincoln, NE 68503

Nebraska State Historical Preservation Office

Stacy Stupka-Burda
National Register Coordinator
1500 R Street
P.O. Box 82554
Lincoln, NE 68501

Nebraska Unicameral

District #34
Annette Dubas
54906 N. 180th Ave
Fullerton, NE 68634

Nebraska Unicameral

District #23
Chris Langemeier
P.O. Box 192
Schuyler, NE 68661

Nebraska Unicameral

District #41
Vickie McDonald
1104 Westridge Lane
St. Paul, NE 68873

Nebraska Unicameral

District #22
Arnie Stuthman
24160 310th Street
Platte Center, NE 68653

Local Government

City of Columbus

Joseph Mangiamelli, Administrator
City Hall ~ First Floor 2424 14th Street
P.O. Box 1677
Columbus, NE 68602

City of Fullerton

James Kramer
City Administrator
903 Broadway Street
PO Box 670
Fullerton, NE 68638

City of Genoa

Lacie Andreasen
City Administrator / Clerk
P.O. Box 279
Genoa, NE 68640

City of Monroe

Connie Kramer
City Clerk
122 Gerrard Avenue
P.O. Box 103
Monroe, NE 68647

* Provided electronically per request.

Nance County

Board of Supervisors
Dennis Jarecke
Chairman
53836 S. 320th Ave.
Fullerton, NE 68638

Platte County

Board of Supervisors
Bob Lloyd
President
2610 14th Street
Columbus, NE 68601

Nance County

Planning and Zoning Commission
Janet Lawson
PO Box 821
Fullerton, NE 68638

Public Agency

Central Platte Natural Resource District

Ron Bishop
General Manager
215 N Kaufman Avenue
Grand Island, NE 68803

Papio-Missouri Natural Resource District

John Winkler
General Manager
8901 S. 154th St.
Omaha, NE 68138

Lower Loup Natural Resource District

Leon Koehlmoos
Manager
2620 Airport Dr
P.O. Box 210
Ord, NE 68862

Upper Loup Natural Resource District

Anna Baum
General Manager
39252 Highway 2
Thedford, NE 69166

Lower Platte North Natural Resource District

John Miyoshi
Manager
511 Commercial Park
P.O. Box 126
Wahoo, NE 68066

Nebraska Public Power District

Jon Sunneberg
NPPD Resource Planning and Risk Manager
1414 15th Street
PO Box 499
Columbus, NE 68602

Lower Platte South Natural Resource District

Glenn Johnson
General Manager
3125 Portia Street
PO Box 83581
Lincoln, NE 68501

Lower Platte River Corridor Alliance*

Rodney Verhoeff
Coordinator
3125 Portia Street
P.O. Box 83581
Lincoln, NE 68501

* Provided electronically per request.

Platte River Recovery Implementation Program

Jerry Kenny
Executive Director
3710 Central Avenue, Suite E
Kearney, NE 68847

Native American

Bureau of Indian Affairs, Great Plains*

Regional Office
Regional Director
115 4th Avenue SE
Aberdeen, SD 57401

Pawnee Tribal Business Council

George Howell
President
P.O. Box 470
Pawnee, OK 74058

Omaha Tribe of Nebraska

Antoine A. Provost
Executive Director
P.O. Box 368
Macy, NE 68039

Non-Governmental Organizations

Columbus Area Recreation and Trails (C.A.R.T.)*

Curt Alms
Treasurer
2717 33rd Street
P.O. Box 515
Columbus, NE 68601

Tern and Plover Conservation Partnership*

Mary Bomberger-Brown
Program Coordinator
3310 Holdrege Street, 153 Hardin Hall,
University
Lincoln, NE 68583

NOHVA*

Dan Nitzel
2231 W. 10th Street,
Grand Island, NE 68831

* Provided electronically per request.

LOUP RIVER HYDROELECTRIC PROJECT FERC PROJECT No. 1256

PRE-APPLICATION DOCUMENT VOLUME 1



Loup Power District
Hydro Project

OCTOBER 16, 2008



**Loup River Hydroelectric Project
FERC Project No. 1256**

Pre-Application Document Volume 1

October 16, 2008

© 2008 Loup River Public Power District

Prepared by:
Loup Power District
2404 15th Street
Columbus, NE 68602

With assistance by:
HDR Engineering, Inc.
8404 Indian Hills Drive
Omaha, NE 68114

TABLE OF CONTENTS

ACRONYMS, ABBREVIATIONS, AND SHORT FORMS	viii
SECTION 1 INTRODUCTION.....	1-1
SECTION 2 PROCESS PLAN AND SCHEDULE	2-1
2.1 INTEGRATED LICENSING PROCESS	2-1
2.2 PARTICIPATION IN THE ILP	2-1
2.3 COMMUNICATION PROTOCOL.....	2-2
2.3.1 Website.....	2-2
2.3.2 Mailing Lists.....	2-3
2.3.3 Meetings.....	2-3
2.3.4 Distribution of Relicensing Material.....	2-4
2.3.5 Information Requests.....	2-5
2.3.6 Providing Comments to the District.....	2-6
2.3.7 FERC Communications	2-6
2.4 STUDY REQUESTS	2-6
2.5 SCHEDULE	2-8
SECTION 3 GENERAL DESCRIPTION OF THE RIVER BASIN	3-1
3.1 BASIN DESCRIPTION.....	3-1
3.2 TRIBUTARIES	3-2
3.3 CLIMATE	3-3
3.4 MAJOR LAND USES	3-3
3.5 MAJOR WATER USES.....	3-3
3.6 DAMS AND DIVERSION STRUCTURES.....	3-4
3.7 PROJECT RETURN FLOW	3-5
SECTION 4 PROJECT LOCATION, FACILITIES, AND OPERATIONS.....	4-1
4.1 AUTHORIZED AGENTS OF THE APPLICANT	4-1
4.2 PROJECT FACILITIES AND COMPONENTS	4-1
4.2.1 Project Description and Configuration	4-1
4.2.2 Diversion Weir	4-2
4.2.3 Intake Gate Structure.....	4-3
4.2.4 Sluice Gate Structure.....	4-5

4.2.5	Settling Basin.....	4-6
4.2.6	Hydraulic Dredge.....	4-8
4.2.7	Sand Management Areas.....	4-11
4.2.8	Skimming Weir.....	4-13
4.2.9	Upper Power Canal.....	4-15
4.2.10	Monroe Powerhouse.....	4-17
4.2.11	Lower Power Canal.....	4-19
4.2.12	Sawtooth Weir.....	4-21
4.2.13	Lake Babcock.....	4-22
4.2.14	Lake North.....	4-24
4.2.15	Intake Canal.....	4-25
4.2.16	Powerhouse Inlet Structure.....	4-27
4.2.17	Penstocks.....	4-28
4.2.18	Columbus Powerhouse.....	4-29
4.2.19	Tailrace Canal.....	4-31
4.2.20	Outlet Weir.....	4-33
4.2.21	Transmission Lines.....	4-34
4.3	CURRENT AND PROPOSED PROJECT OPERATION.....	4-34
4.3.1	Reservoir Storage.....	4-34
4.3.2	River Flows.....	4-35
4.3.3	Power Generation.....	4-36
4.3.4	Normal Project Operations.....	4-38
4.3.5	Cold Weather Operations.....	4-40
4.3.6	High Flow Operations.....	4-41
4.3.7	Low Flow Operations.....	4-42
4.3.7	Monitoring.....	4-43
4.3.8	Communications.....	4-44
4.4	EXISTING LICENSE.....	4-45
4.4.1	Existing License Requirements.....	4-45
4.4.2	5-Year Project Generation and Outflow Summary.....	4-45
4.4.3	Current Net Investment.....	4-46
4.4.4	Compliance History.....	4-46
4.5	PROPOSED FACILITIES AND OPERATIONAL CHANGES.....	4-46

SECTION 5	EXISTING ENVIRONMENT AND RESOURCE IMPACTS.....	5-1
5.1	GEOLOGY AND SOILS.....	5-1
5.1.1	Geological Features.....	5-1
5.1.2	Soils.....	5-2
5.1.3	Conditions of Canal and Reservoir Shorelines.....	5-3
5.2	WATER RESOURCES.....	5-6
5.2.1	Drainage Area.....	5-6
5.2.2	Flows.....	5-6
5.2.3	Uses of Project Water.....	5-24
5.2.4	Flow Uses of Streams in the Vicinity of the Project.....	5-25
5.2.5	Water Quality.....	5-27
5.2.6	Reservoirs.....	5-39
5.2.7	Downstream Reaches.....	5-40
5.3	FISH AND AQUATIC RESOURCES.....	5-42
5.3.1	Existing Fish and Aquatic Communities.....	5-42
5.3.2	Potential Impacts on Fish and Aquatic Communities.....	5-46
5.3.3	Essential Fish Habitat.....	5-48
5.3.4	Distribution of Fish and Aquatic Communities.....	5-48
5.4	WILDLIFE AND BOTANICAL RESOURCES.....	5-49
5.4.1	Upland Habitat(s) and Plant and Animal Species.....	5-49
5.4.2	Distribution of Species.....	5-56
5.5	WETLANDS, RIPARIAN, AND LITTORAL HABITAT.....	5-59
5.5.1	Floodplain.....	5-59
5.5.2	Wetlands.....	5-60
5.5.3	Riparian Habitat.....	5-62
5.5.4	Littoral Habitat.....	5-62
5.5.5	Plant and Animal Species.....	5-62
5.6	RARE, THREATENED, AND ENDANGERED SPECIES.....	5-65
5.6.1	Available Reports Pertaining to RTE Species.....	5-67
5.6.2	Federally Designated Critical Habitat.....	5-68
5.6.3	Species Occurrence, History, and Habitat Requirements.....	5-69
5.6.4	Effects of the Project.....	5-80

5.6.5	Existing or Proposed Protection, Mitigation, and Enhancement Measures	5-80
5.7	RECREATION AND LAND USE	5-84
5.7.1	Existing Recreational Facilities	5-84
5.7.2	Recreational Use	5-92
5.7.3	Current and Future Recreation Needs.....	5-93
5.7.4	Existing Shoreline Buffer Zones	5-95
5.7.5	Current Shoreline Management Plan or Policy.....	5-95
5.7.6	National Wild and Scenic River or State-Protected River	5-96
5.7.7	National Trails System or Wilderness Area	5-96
5.7.8	Regionally or Nationally Important Recreation Areas	5-96
5.7.9	Non-Recreational Land Use and Land Management.....	5-97
5.8	AESTHETIC RESOURCES	5-97
5.9	CULTURAL RESOURCES	5-108
5.9.1	Existing Discovery Measures.....	5-108
5.9.2	Identification of Historic or Archaeological Site(s).....	5-108
5.10	SOCIO-ECONOMIC RESOURCES	5-111
5.10.1	Land Use	5-111
5.10.2	Population.....	5-112
5.10.3	Employment.....	5-113
5.10.4	Economic Development.....	5-115
5.10.5	Income.....	5-115
5.11	TRIBAL RESOURCES.....	5-116
SECTION 6	PRELIMINARY ISSUES AND STUDIES LISTS	6-1
6.1	RESOURCE ISSUES.....	6-1
6.2	PROPOSED STUDIES	6-6
6.3	RESOURCE ISSUES NOT REQUIRING FORMAL STUDY	6-17
6.4	COMPREHENSIVE WATERWAY PLANS.....	6-27
6.5	RESOURCE MANAGEMENT PLANS	6-27
SECTION 7	REFERENCES.....	7-1

LIST OF TABLES

Table 2-1. Document Distribution Procedures	2-5
Table 3-1. Loup River Basin Storage and Diversion Dams.....	3-5
Table 4-1. Project Turbines	4-37
Table 4-2. Project Generators	4-37
Table 4-3. Average Project Energy Production	4-38
Table 4-4. Annual Project Generation and Average Outflow	4-46
Table 5-1. Average Daily Minimum, Mean, and Maximum Flows by Month on the Loup River near Genoa, Water Year 1950 to Water Year 2007	5-10
Table 5-2. Average Daily Minimum, Mean, and Maximum Flows by Month on the Loup Power Canal near Genoa, Water Year 1950 to Water Year 2007.....	5-11
Table 5-3. Average Daily Minimum, Mean, and Maximum Flows by Month on the Loup River at the Point of Diversion, Water Year 1950 to Water Year 2007.....	5-13
Table 5-4. Minimum, Mean, and Maximum Flows by Month on the Tailrace Canal at Columbus, Water Year 2003 to Water Year 2007	5-14
Table 5-5. Average Daily Minimum, Mean, and Maximum Flows by Month on the Loup River at Columbus, April 1934 to October 1978	5-15
Table 5-6. Average Daily Minimum, Mean, and Maximum Flows by Month on Beaver Creek at Genoa, Water Year 1950 to Water Year 2007.....	5-16
Table 5-7. Average Daily Minimum, Mean, and Maximum Flows by Month on the Platte River at Duncan, Water Year 1950 to Water Year 2007	5-17
Table 5-8. Average Daily Minimum, Mean, and Maximum Flows by Month on the Platte River at North Bend, Water Year 1950 to Water Year 2007	5-18
Table 5-9. Annual Water Volume Comparison, Loup Power Canal near Genoa to the Columbus Powerhouse, Water Year 2003 to Water Year 2007	5-19
Table 5-10. Annual Water Volume Comparison, Columbus Powerhouse to the Tailrace Canal, Water Year 2003 to Water Year 2007	5-20
Table 5-11. Annual Water Volume Comparison, Loup Power Canal near Genoa to the Tailrace Canal, Water Year 2003 to Water Year 2007	5-21
Table 5-12. Discharge/Stage Period of Record.....	5-22
Table 5-13. Sediment Yield Analysis.....	5-23
Table 5-14. Summary of Water Right Claims, Applications, and Appropriations by NDNR within the Project Boundary	5-26

Table 5-15. Assigned Beneficial Uses for Waters in the Vicinity of the Project 5-29

Table 5-16. 2004 Integrated Report 5-36

Table 5-17. 2006 Integrated Report 5-37

Table 5-18. 2008 Integrated Report 5-38

Table 5-19. Reservoir Data 5-40

Table 5-20. Fish Sampled in the Loup River Basin and the Lower Platte River 5-44

Table 5-21. Fish Kills 5-46

Table 5-22. Vegetation of the Region..... 5-50

Table 5-23. Birds of the Region..... 5-52

Table 5-24. Mammals of the Region 5-54

Table 5-25. Amphibians and Reptiles of the Region..... 5-55

Table 5-26. Wetland Types in the Vicinity of the Project..... 5-61

Table 5-27. Common Wetland Plants 5-63

Table 5-28. RTE Species that May Occur in the Vicinity of the Project or
May Be Affected by the Proposed Relicensing of the Project 5-65

Table 5-29. Reports Pertaining to Federally and State-listed RTE Species 5-67

Table 5-30. Land Use 5-97

Table 5-31. Archaeological Sites..... Privileged

Table 5-32. Population Trends in Nance and Platte Counties and Nebraska..... 5-112

Table 5-33. Population Change in Communities in the Vicinity of the Project 5-113

Table 5-34. Employment Trends in Nance and Platte Counties 5-114

Table 6-1. Proposed Studies 6-8

Table 6-2. Resource Issues and Proposed Studies 6-13

Table 6-3. Historic Dredging Dates 6-18

LIST OF FIGURES

[Figures are located at the end of their respective sections.]

Figure 1-1. Project Location

Figure 2-1. Relicensing Schedule Diagram

Figure 3-1. Platte and Loup River Basins

Figure 3-2. Loup River Basin
Figure 3-3. Streams and Drainage Basins in the Vicinity of the Project
Figure 4-1. Project Boundary
Figure 5-1. Geologic Bedrock Map of Nebraska
Figure 5-2. Topography
Figure 5-3. Soils
Figure 5-4. Stream Gage Locations for Evaluation
Figure 5-5. Stream Gage Locations in the Vicinity of the Project
Figure 5-6. NDEQ Water Body Segment IDs
Figure 5-7. Wetlands
Figure 5-8. Recreational Facilities
Figure 5-9. Land Use

ACRONYMS, ABBREVIATIONS, AND SHORT FORMS

ADA	Americans with Disabilities Act
AHZ	Active Habitat Zone
AMP	adaptive management plan
Applicant	Loup River Public Power District (also Loup Power District or the District)
CART	Columbus Area Recreational Trails, Inc.
CEII	Critical Energy Infrastructure Information
CFR	Code of Federal Regulations
cfs	cubic feet per second
CRMP	cultural resources management plan
CWA	Clean Water Act
DDT	dichlorodiphenyltrichloroethane
District	Loup River Public Power District (also Loup Power District)
DO	dissolved oxygen
EAP	Emergency Action Plan
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act of 1973
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FOIA	Freedom of Information Act
FPA	Federal Power Act

FR	Federal Register
GIS	geographic information systems
hp	horsepower
Hz	hertz
ILP	Integrated Licensing Process
kV	kilovolt(s)
kVA	kilovolt-ampere(s)
kWh	kilowatt hour
Loup Power District	Loup River Public Power District (also the District)
µg/L	micrograms per liter
MCL	maximum contaminant level
mL	milliliter(s)
MOU	Memorandum of Understanding
MW	megawatt(s)
mya	million years ago
N/A	not applicable
NAC	Nebraska Administrative Code
NCDC	National Climatic Data Center
NDEQ	Nebraska Department of Environmental Quality
NDNR	Nebraska Department of Natural Resources
NEPA	National Environmental Policy Act
NESCA	Nongame and Endangered Species Conservation Act
NGPC	Nebraska Game and Parks Commission
NHHS	Nebraska Health and Human Services

NHPA	National Historic Preservation Act
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPPD	Nebraska Public Power District
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSHS	Nebraska State Historical Society
NWI	National Wetlands Inventory
OHV	Off-Highway Vehicle
PA	programmatic agreement
PAD	Pre-Application Document
PDF	portable document format
PM&E	protection, mitigation, and enhancement
ppb	parts per billion
Project	Loup River Hydroelectric Project
ROW	right-of-way
rpm	revolutions per minute
RTE	rare, threatened, or endangered
SCORP	<i>State Comprehensive Outdoor Recreation Plan</i>
SD	Scoping Document
Section 106	Section 106 of the National Historic Preservation Act
SHPO	State Historic Preservation Office

SMA	Sand Management Area
TMDL	total maximum daily load
U.S.	United States
USACE	U.S. Army Corps of Engineers
USC	United States Code
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
WMA	Wildlife Management Area

THIS PAGE INTENTIONALLY LEFT BLANK