

2017 Cost-Share Proposal Form for NorthWestern Energy (NWE) Project 2188 TAC Funds

Project 2188 (Madison-Missouri River) License Protection, Mitigation and Enhancement (PM&E) projects are required to offset impacts to river resources from the continued operation of one or more of NWE's nine hydro developments (Hebgen, Madison, Hauser, Holter, Black Eagle, Rainbow, Cochrane, Ryan and Morony Dams). PM&E projects need to be prioritized toward in-river or on-the-ground measures that directly benefit fisheries and/or wildlife populations and their habitats:

Priority 1: 2188 License projects which meet License Article requirements and PM&E for fisheries or wildlife populations or their habitats within the main stem Madison River (Hebgen Reservoir to Three Forks) or Missouri River (Hauser Reservoir to Fort Peck Reservoir)

Priority 2: 2188 License projects which meet License Article requirements and PM&E for fisheries or wildlife populations or their habitats in primary tributaries or on adjacent lands and, in doing so, provide PM&E for Madison River (Hebgen Reservoir to Three Forks) or Missouri River (Hauser Reservoir to Fort Peck Reservoir) resources.

Priority 3: 2188 License PM&E projects which meet License Article requirements by providing scientific or other tangible PM&E benefits to Madison-Missouri River fisheries or wildlife populations or their habitats. These projects must be located in the greater Missouri River drainage upstream from Fort Peck Reservoir, but not necessarily located on the main stem Madison River or Missouri River or their adjacent lands or primary tributaries.

All TAC project proposals must include the following information:

Project Title: **Trumpeter Swan breeding flock restoration in the Middle Madison Valley**

Date: 11/5/2020

Explain how this Project addresses a specific Project 2188 License Article(s):

Article 423 Wildlife/habitat PM&E on Madison-Missouri Rivers, specifically "... wildlife enhancement plan that includes specific goals, objectives, and standards to enhance native plants and wildlife populations on the lands and waters associated with the project; including identification of specific protection, mitigation, and enhancement strategies for avian species."

Provide justification for Priority 1, 2 or 3 (above) that you selected: Priority 2

Our project addresses License Article 423 by restoring native trumpeter swans to their historic range. With the primary objective of this restoration work to provide nesting habitat for trumpeter swans in the O'Dell Creek Headwaters area, in hopes that they will pioneer wetlands throughout the Madison Valley where suitable nest areas are available. More specifically, in 2011 MFWP Region 3, in collaboration with the Montana Wetlands Legacy Partnership (MWLP), through its wetland restoration efforts in the Madison Valley, proposed to increase the geographic extent of the Montana trumpeter swan restoration program by beginning to release captive-reared swans in the middle Madison, starting in 2012. This broad partnership of Madison Valley landowners and federal, state and private partners has been nationally recognized for providing quality wetland habitat that offers the potential to increase swan production in the region and to enhance connectivity between flocks breeding in the Centennial Valley, Blackfoot, and Flathead Valleys in Montana.

Project Sponsor (submitted by):

Claire Gower, Wildlife Biologist
Montana Fish, Wildlife & Parks
1400 South Nineteenth
Bozeman, MT 59718
406-599-1691
cgower@mt.gov

Location of Proposed Project: Madison Valley with primary focus on O'Dell Creek Headwaters

Narrative: Swans will be released at the Granger Ranch (primary release locations). If swans are nesting at this location, a secondary release location will be the Longhorn Ranch

Geocode (in decimal degrees ex 46.89743)

Lat; 45.253054

Lon: -111.730375 (Granger Ranch/O'Dell creek)

Total Project Cost: \$7,000

TAC Funds (Cost-Share) Requested for Project: \$6,000

I. Introduction; brief statement of project to be completed with pertinent background information.

Since its inception, Northwestern Energy has been a funding partner for restoration of the O'Dell Creek Headwaters wetlands and the accompanying restoration of breeding trumpeter swans in the middle Madison. Restoration of wetland habitats in this area has now provided essential breeding areas for reestablishment of breeding trumpeter swans to this portion of their historic breeding range. Releases of hand-reared, wild stock trumpeter swans has occurred for 7 of the last 9 years (no swans were released in 2018 and 2019), with 2020, and 2021 being the seventh year and eight year of releases, respectively. Based on experience in the Blackfoot Valley and other parts of the Rocky Mountain Trumpeters' breeding range, approximately six to eight years of releases will be needed to establish the first nesting pairs in the area. While we are not aware of any known nests, we have had reports and observed adult swans with yearling birds in spring indicating that there is successful breeding occurring up and down the valley. In 2017 we observed two adult birds (one banded as part of these efforts) with two yearlings just south of Ennis, and in 2019 and 2020 we observed an adult swan with five yearling birds on Ennis lake. In 2020 we saw an adult white bird with three yearlings on O'Dell.

II. Objectives; explicit statement(s) of what is intended to be accomplished.

Continued wetland restoration projects in the Madison serves as the basis for establishing a breeding flock of trumpeter swans in the area. The objective of this restoration effort, approved by the Montana Fish, Wildlife and Parks Commission, is to restore a breeding flock of at least five established nesting pairs in the middle Madison from Quake Lake to Ennis Lake.

III. Methods; description of how Project objectives will be accomplished.

MFWP is providing support for the Madison trumpeter swan effort through existing positions within MFWP. MFWP's Region 3 Wildlife Biologist (who also serves as the MT Pacific Flyway Study Committee Representative and the Greater Yellowstone Trumpeter Swan Working Group (GYTSWG) chair) as well as MFWP's Flyway Biologist position in Billings (Jim Hansen) are providing support for this program by assisting in constructing soft release pens, obtaining neck collars and other banding materials, reporting banding data/recoveries to the USGS Banding Lab in Patuxent, Maryland, working with landowners and the public to capture and salvage injured, sick, or dead birds, giving presentations to the public, and in other ways. MFWP is also taking a lead role in raising additional funds and securing additional partnerships from other sources including; Montana Audubon, the Sacagawea Chapter of the Montana Audubon, Montana Outdoor Legacy Foundation, and from private individuals.

Northwestern Energy (NWE) has provided between \$3,500 - \$5,000 per year depending on projects needs and funding from other sources. These funds are generally used to obtain birds for release from Wyoming Wetlands Society, as well as providing additional operations support for releases. We also conduct a spring flight in early June to evaluate possible nesting and to increase monitoring efforts to gauge the success of the program. We feel that we are now at a critical time in this work where nesting is possible and we would like to be able to report possible nesting attempts, and if possible the number of young produced. Consultation with Bill Long, director, Wyoming Wetlands Society (WWS), indicates that this flight should be conducted annually. The WWS funded this flight in 2016, and NWE funded the flight, annually, in 2017 to 2020. We hope to continue with an annual spring flight thus funds are being requested in this proposal to NWE and are reflected in the budget.

In 2018 and 2019 there were a limited number of cygnets available from Wyoming Wetlands Society for project releases. Discussions with project leads, decided to maximize the number of cygnets available to two projects (Yellowstone National Park and the Blackfoot Project) as these projects have time sensitive release dates, and/or are coming to completion of the project. Because Middle Madison did not get birds 2019, we were top of the allocation in 2020, receiving 5 cygnets. Production at WWS is increasing so we are confident we will receive cygnets in 2021. As discussed at the NWE TAC team meeting last winter, the efforts of the Middle Madison stretch beyond just Montana but are critical at a Flyway project wide level.

Also, in 2019, and 2020 we implemented 2 GPS/GSM collars on trumpeter swans in the Middle Madison each year. These birds are caught during molting in the summer and implemented with the device which help to describe habitat use, migration paths, and will be used to facilitate future restoration work. These devices store locations and download to cell towers every 10-30 minutes. They are solar paneled so will hopefully last the life of the bird. These devices were funded by Wyoming Wetlands Society, but we hope to deploy more in the coming years (devices have also been deployed in the Blackfoot valley).

Finally, every time we handle a wild bird, we take feathers and send them to our collaborators within the Pacific Flyway so that isotope analyses can be done to determine their origin. This is also being done in OR, ID, UT and NV. This further exemplifies the breadth of this work.

MFWP will continue to work with funding partners to solicit donations for obtaining swans for the 2021 release and beyond as needed.

IV. Schedule; when the Project work will begin and end.

Project planning, coordination, authorization from Pacific Flyway Council and others is ongoing.

V. Personnel; who will do the work ? Identify Project leader or principal investigator.

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MT Fish, Wildlife & Parks
1400 South Nineteenth
Bozeman, MT 59718
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VI. Project budget must include amounts for the following:

Direct Labor	0
Travel and Living	1000
Materials	1000
Other Direct Expenses	5000
Direct Overhead	0

All cost-share sources and amounts, including estimation of “in-kind” contributions

\$2,000 In-Kind FWP Native Species Program – Region 3*

\$1,000 In-Kind Bill Long, Wyoming Wetlands Society**

\$1,000-1,500 has in the past been provided by MT and Sacajawea Audubon -we are unsure if these funds will be available this year but we are currently working to secure additional match commitments for this year.

*~ 8 days / 64 hours full time biologist salary dedicated to swan restoration – meetings for restoration approval, constructing and taking down soft release pen, collecting and releasing swans, follow up monitoring and database management, project reporting and project product/presentation development and delivery. Also, Pacific Flyway and Greater Yellowstone Trumpeter Swan working Group attendance and coordination.

** Travel time to and from field site, transport of birds up, disease testing, project coordination and facilitation, project reporting, meetings and Pacific Flyway involvement.

VII. Deliverables; describe work product (reports, habitat restoration, etc.) which will result from this Project. How will “success” for this project be monitored or demonstrated?

Continued release of trumpeter swans in 2021, associated construction of release pen(s), tracking of birds and recording locations/maintaining data records, securing markers and reported bandings to Bird Banding Lab by the end of the year. MFWP will also provide an annual report update before the 2020 Wildlife TAC Meeting. A PowerPoint presentation will also be given at the annual TAC team meeting. A glossy tri-fold document summarizing the work and promoting the MFWP and Northwestern Energy’s collaboration was produced in 2016; this needs to be updated in 2021 to reflect updated activity. Approximately 200 were printed and distributed at fundraising events and at the most recent swan release. They are also available at the MFWP regional headquarters in Bozeman. More will be printed and provided at similar events in 2021 onwards. This document will promote observations of marked birds to be reported to MFWP which will facilitate knowledge of the success of the project. Presentations have been given to the Ruby Watershed Group and Sacajawea Chapter Montana Audubon. We have been asked to present the annual presentation at the Woodson habitat foundation ranch (Ruby valley) next summer on these restoration efforts. We will also use the spring flights (described above) to gauge project success.

VIII. Cultural Resources. Cultural Resource Management (CRM) requirements for any activity related to this Project must be completed and documented to NWE as a condition of any TAC grant. TAC funds may not be used for any land-disturbing activity, or the modification, renovation, or removal of any buildings or structures until the CRM consultation process has been completed. Agency applicants must submit a copy of the proposed project to a designated Cultural Resource Specialist for their agency. Private parties or non-governmental organizations are encouraged to submit a copy of their proposed project to a CRM consultant they may have employed. Private parties and non-governmental organizations may also contact the NWE representative for further information or assistance. Applications submitted without this section completed, will be held by the TAC, without any action, until the information has been submitted.

Summarize here how you will complete requirements for Cultural Resource Management:

Due diligence, including MEPA and NEPA compliance, requires consulting cultural resource professionals for all projects involving public funds. Cultural resource professionals within the sponsoring agencies or with the MT SHPO office will conduct cultural resource inventories on this project. Sponsoring entities will ensure that these surveys are conducted and results reported in advance of initiating this project. Northwestern Energy's cultural resource consultants will also be involved as required by the company.

IX. Water Rights. For projects that involve development, restoration or enhancement of wetlands, please describe how the project will comply with the intent of Montana water rights laws and policies and with NWE's water rights guidelines for wetland projects.

Summarize here how you will comply with Montana and NWE water rights laws, policies and guidelines:

Not applicable

All TAC Project proposals should be 7 pages or less and emailed (as a WORD file) to each of:

- Andrew.Welch@Northwestern.com
- Jon.Hanson@Northwestern.com
- Grant.Grisak@Northwestern.com

Further questions about TAC proposals or Project 2188 license requirements or related issues may be addressed to: Andy Welch, Leader Hydro License Compliance, NorthWestern Energy, 1315 N Last Chance Gulch, Helena, MT 59601; 406-444-8115 (office); 406-565-7549 (cell); Andrew.Welch@northwestern.com.