



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: Missouri River Jet Boat Electrofishing Components...for Missouri River Jet Boat

Date: 11/9/2023

Explain how this Project addresses a specific Project 2188 License Article(s): This equipment addresses article;

414 -Monitoring of fish populations in the Hauser Dam tailwater is completed on alternate years using electrofishing equipment.

416 -Monitoring of fish populations in a 3-mile section immediately downstream from Holter Dam is completed on alternate years using electrofishing equipment.

-Annual trout population [electrofishing] estimates are made in two long-term monitoring sections of the Missouri River downstream from Holter Dam.

417 - Annual fall electrofishing will be used to monitor fish populations in five standard long-term study areas in the approximate 230-mile reach of Missouri River between Morony Dam and Fort Peck Reservoir.

Provide justification for Priority 1, 2 or 3 (above) that you selected: This a Priority 1 project which serves to aid in PM&E population monitoring efforts on the Missouri River from below Canyon Ferry Dam to the headwaters of Fort Peck Reservoir.

Project Sponsor (submitted by): NWE

Location of Proposed Project: Missouri River from below Canyon Ferry Dam to Fort Peck Reservoir
Narrative

Geocode (in decimal degrees ex 46.89743) Lat: _____ Long: _____

Total Project Cost: \$3,900

TAC Funds (Cost-Share) Requested for Project: \$3,900

- I. Introduction; brief statement of project to be completed with pertinent background information.
Purchase necessary materials and equipment to construct an electrofishing system on a jet boat.
- II. Objectives; explicit statement(s) of what is intended to be accomplished.
Purchase necessary materials and equipment to construct an electrofishing system on a jet boat.
- III. Methods; description of how Project objectives will be accomplished.
Purchase necessary materials and equipment to construct an electrofishing system on a jet boat.
- IV. Schedule; when the Project work will begin and end: NA.
2024 calendar year
- V. Personnel; who will do the work? Identify Project leader or principal investigator: NWE
- VI. Project budget must include amounts for the following:
 - Direct Labor: NA
 - Travel and Living: NA
 - Materials: **\$3,900**

Wooldridge - construct removable rigid aluminum live car tub
2 Square D explosion proof push/pull control boxes
2 Square D push/pull operators
2 Square D contact blocks
30 feet of 14/4 insulated braided copper wire
30 feet of flexible watertight conduit
Misc watertight Square D box connectors
Misc Square D electrical connectors
3 weather proof electrical boxes
2 female Woodhead watertight twist-lock plugs for anodes
2 male Woodhead watertight twist-lock plugs for anodes
28 feet of stainless steel cable for anodes (machine shop end capping)
3 @ 14.5 foot long 1.5 inch OD, 1.25 inch ID carbon fiber anode poles
6 machined anode pole connectors – Cascade Machine, Great Falls, MT
Male 4-pin Amphenol plug
Female 4-pin Amphenol plug
240V 4-pin locking plug
3 @ 12V LED lights
5 ft 2in x 2in OD aluminum lighting post, mounted - square stock
750 GPM bilge pump for live car with flat plate mount screened intake filter
16 ft of 1.5 in OD rubber tubing for live well, with mics fittings
12V RV battery 850 CCA, with mounting box
70 ft 14 ga insulated braided copper wire for lighting system and live well
Noco Boost HD GB70 2000A onboard battery charger

- Other Direct Expenses: NA
- Direct Overhead*: NA

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

***NorthWestern Energy TAC funds will not be used for agency overhead on projects that do not fund personnel. Applications for materials and equipment should not contain overhead.**

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?

Deliverable will be reliable, efficient, productive and safe monitoring equipment

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: NA

IX. Water Rights. For projects that involve development, restoration or enhancement of wetlands, please describe how the project will comply with the Montana DNRC’s “Guidance for Landowners and Practitioners Engaged in Stream and Wetland Restoration Activities”, issued by the Water Resources Division on 9 March 2016.

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

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

Manager, Hydro License Compliance

Andrew.Welch@NorthWestern.com

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