

Statement of Work
for

Interagency Agreement
Between
U.S. Army Corps of Engineers
North Pacific Division
and
Department of Energy
Bonneville Power Administration

Part A General

A.1 Goal of this contract.

This Interagency Agreement, entered into between the U.S. Army Corps of Engineers (Corps), North Pacific Division (NPD) and the Department of Energy (DOE), Bonneville Power Administration (BPA), shall express the terms and conditions under which NPD and BPA will cooperatively develop and maintain the Pacific Northwest Hydropower Data Base and Analysis System. The goal of this Agreement is to establish the respective roles and responsibilities of the NPD and BPA; to describe the work task assignments and identify the deliverable products; and to describe the mechanism for payment for services rendered.

A.2 Background

As part of its continuing program to improve assessment of hydroelectric development potential of Northwest rivers, the Northwest Power Planning Council (Council) and the Bonneville Power Administration (BPA) began simultaneous evaluation and assessment studies in 1984 of (1) potential hydropower sites, and (2) characteristics of Northwest streams that would be affected by hydropower development.

Potential hydropower sites in the region are being identified, mapped, and described in a cooperative study by the Council, BPA and the Corps. Data for all identified hydropower sites in Corps, Federal Energy Regulatory Commission (FERC), and state records continue to be compiled. Each site has been classified into one of eight general types: (1) Run-of-river, (2) Diversion, (3) Run-of-river with Diversion, (4) Storage, (5) Storage Reservoir with Diversion, (6) Canal, (7) Conduit, and (8) Off-Stream or Pumped Storage, with additional subcategories. For each project type, the Pacific Northwest Data Base, which is part of the Pacific Northwest Hydropower Data Base and Analysis System (NWHS), includes data on existing, existing with power, and undeveloped project sites. Data for these sites can be displayed graphically on maps with the resource data superimposed.

The NWHS was developed by the Corps NPD in cooperation with the Council and with the assistance of the Council and BPA. It was developed in response to Section 14.3 of the Council's Two-Year Action Plan of the Northwest Conservation and Electric Power Plan, 1983, to provide a regional data base of existing and potential hydropower projects. The data base is used by the

Council and BPA in preparing power resources supply forecasts. In addition, the data base provides the site-specific data needed to implement the Council's Protected Areas Program [1987 Columbia River Basin Fish and Wildlife Program, Section 1103(c)] and BPA's Long-Term Intertie Access Policy. The NWHS is used to assist BPA's Acquisition Process and Options Programs.

The data base consists of site-specific data on hydropower projects currently in the Federal Energy Regulatory Commission (FERC) licensing/exemption process, existing projects, and previously identified sites without FERC status. These latter projects and sites consist of (1) existing federally owned power projects (federal projects are not subject to FERC jurisdiction); (2) existing federally owned non-power projects with power potential; (3) existing non-federal dams and other water control structures with power potential, but which have not been proposed for development through an application filed with FERC; and (4) undeveloped sites for which power potential has been previously studied.

The initial data compilation for projects with FERC licensing/exemption status was completed using information contained in applications filed by the developer with FERC. The initial data compilation for non-FERC or National Hydropower Study (NHS) projects was accomplished based on the findings of the National Hydropower Study which was completed by the Corps of Engineers in September, 1981. More recent information for the NHS projects is compiled and incorporated in the database as it becomes available. Data on newly proposed FERC and non-FERC (NHS) projects are periodically added to the data base in order to maintain the currency of information. The NWHS has been incorporated into BPA's Pacific Northwest Environmental Data Base.

A.3 Location of Project

The work in support of this project will be primarily performed at the U.S. Army Corps of Engineer's North Pacific Division offices or the Portland District offices in Portland, Oregon. Some work may also be performed at other Corps District Offices in Seattle, Washington; Walla Walla, Washington; Sacramento, California; and Omaha, Nebraska. Some work related tasks may be performed at the Eastside Federal Complex or Council offices in Portland, Oregon.

A.4 Government Furnished Property/Services

The Bonneville Power Administration shall provide for storage of and access to the official files of FERC hydro project information. BPA shall provide for storage of and access to the files of non-FERC hydro project information developed by BPA and others to support maintenance of the data base portion of the NWHS. BPA will prepare input information, to be provided in diskette form, for use by the Corps in updating and maintaining the data base portion of the NWHS. In general, the need for BPA property or other BPA services is not anticipated. However, use of any equipment, facilities, and/or services provided by BPA will be authorized by and coordinated through the COTR to support specific tasks requested by BPA and to be performed by the Corps.

A.5 Contractor Furnished Property or Services

The Corps is expected to provide all other property, facilities, and services, including Corps staff travel arrangements, in support of this Agreement, except those mentioned under Section A.4 above.

A.6 Definitions

The following unusual terms or acronyms are used within this work statement and are defined within this section.

Form 1 Form 1 is the name given to the output report from the NWHS maintenance process. It contains a listing of all hydropower project data item values.

GETUSGS GETUSGS is the name given to a computerized data file containing stream gage identification, location, stream flow characteristics, and other pertinent information.

Part B Technical Approach/Tasks

B.1 General Requirements

The Corps shall work cooperatively with BPA to accomplish the successful data base development and maintenance, and provide for access to and use of the NWHS. The Corps will interact with and obtain general guidance from the Chief, Generation Analysis and Technical Support Section through contact with the Section staff. Established procedures are followed for most tasks. Other tasks may require consultation with and direction from the COTR. More than one assignment may be underway concurrently. Some innovation may be required to determine the most efficient way to accomplish a task.

The Corps shall provide those services necessary to successfully accomplish NWHS data base editing and maintenance; perform data quality review; perform data development of computer generated data elements; provide data base support software development, maintenance and operation; prepare tape copies of the updated data base for distribution to BPA and the Council; provide consultation and training pertaining to data item definition, description, selection and use; and provide NWHS access for data retrieval and reporting. Attendance at project coordination and technical meetings held at the Eastside Federal Complex or Council offices in Portland, Oregon may be required.

B.2 Methods to be Used

The Corps will work primarily with BPA and BPA's NWHS data development support services Contractor, but may have contact with the Council and others involved in the hydropower site data base maintenance, data analysis, and data file preparation and processing.

It is expected that the near-term work will address both the on-going data base development and maintenance to provide currency to the information; and the needed review and update of the already included hydro project information which is incomplete or erroneous.

B.3 Specific Requirements

The Bonneville Power Administration shall review hydro electric project application and project revision information obtained from the Corps, FERC and others, for data describing Pacific Northwest regional hydro project identification and location, status, physical and hydrologic characteristics, costs, power data and environmental information. BPA shall transform this information into a format compatible with the Pacific Northwest Hydropower Data Base and Analysis System, and prepare a diskette containing the formatted input ready for use by the Corps in the NWHS data base maintenance process. BPA shall continue to preview the project update information to provide a measure of quality assurance before submitting the data to the Corps for processing. After receiving the NWHS data base maintenance products from the Corps, BPA shall compare the output from the Form 1 report (see Section A.6 Definitions), to the official file information as a measure of data quality assurance. In addition, BPA shall continue the current efforts to improve the quality of the NWHS data base by performing a full coding review of all projects contained within the data base.

The Corps will provide for the involvement of the appropriate agency engineering, economics, computer programmer or systems analyst, and computer operations staff within their organization to accomplish their support tasks. The Corps will provide services to BPA through the performance of the following tasks:

- Task 1 Upon receipt of the BPA prepared data diskettes, the Corps shall implement the data base maintenance process.
- o Review the project input information for reasonableness, completeness and accuracy, paying particular attention to the project physical and site hydrologic characteristics data.
 - o Utilizing input provided by BPA, FERC and others, the Corps shall initiate the creation process to add new project information to the NWHS; delete duplicate records for the same site and developer; update changes in the project status; complete data compilation for new projects; and revise site-specific data to update the project record.
 - o When developer supplied input is missing, prepare and perform computer runs using the Hydropower Analysis Model (HAM) to obtain data elements to complete project identification, physical and hydrological characteristics, power data, and associated cost information.
 - o Review and affirm the HAM generated information, including stream gage selection.
 - o Perform the update maintenance of the NWHS using BPA supplied diskette data input and HAM analysis output.
 - o Review the maintenance update results to affirm the project update operation was successfully completed.
 - o Provide BPA with the computer output updated Form 1 report, copies of the maintenance run output, and the original BPA supplied project input data diskettes.
- Task 2 The Corps shall provide software support to incorporate product enhancements/improvements or other software modifications into the Hydropower Analysis Model and Pacific Northwest Hydropower Data Base and Analysis System. The Corps shall provide software support to create needed NWHS data base screening logic and supplemental informational reports.
- Task 3 Provide routing of all FERC documents pertaining to region (all of Montana, Idaho, Oregon and Washington) to BPA, including documents from the Corp's South Pacific Division (SPD) and Missouri River Division (MRD), within 2 weeks of date of documents.

- Task 4 On a monthly basis, but more frequently if requested by the COTR, produce one copy each of the updated tape of the NWHS data base to BPA and the Council. The BPA tape copy should contain projects all within the four state area (Montana, Idaho, Oregon and Washington). The Council tape copy should contain all the projects on the NWHS.
- Task 5 Update federal project data (engineering) for inclusion in NWHS.
- Task 6 Assist with the merging of NHS projects into NWHS.
- Task 7 Provide HAM, including GETUSGS (see Section A.6 Definitions), software maintenance and revision as needed.
- Task 8 Provide BPA technical consultation and analysis systems training as determined by the COTR.
- Task 9 Create and provide BPA with documentation of analytical tools, and maintenance and editing routines used in support of the HAM and NWHS process.
- Task 10 Create and provide HAM documentation to BPA and Council.
- Task 11 Update NWHS Data Items Description Manual (DIDM) documentation and circulate to BPA, Council and other NWHS users.
- Task 12 Assist with NWHS data base content and structure review.
- Task 13 Update Form 1 report and NWHS data item format and arrangement as determined by the COTR.
- Task 14 Provide user access to NWHS.
- Task 15 Provide NWHS user training seminars, out reach and support.

B.4 Deliverables

At the conclusion of each NWHS maintenance processing, the Corps shall submit the following materials to BPA:

- o Maintenance and Edit processing Job Control Language (JCL).
- o Computer output listings from the Edit and Maintenance process.
- o Computer output Form 1 for updated projects.
- o Computer output listings, as appropriate, from any associated Hydropower Analysis Model (HAM) runs.
- o BPA provided data input diskettes used for the data base maintenance processing.

BPA expects to submit no more frequently than daily updates to the Corps to implement project status changes and the NWHS data base review full coding effort. The Corps is expected to process NWHS data base edit and maintenance runs within two days of receipt of the diskette from BPA to minimize backup.

As a minimum, on a monthly basis, the Corps shall provide BPA and the Council with one copy each of the updated tape of the NWHS data base, including all data changes sent to the Corps. The BPA tape copy should contain projects within the four state area (Montana, Idaho, Oregon and Washington). The Council tape copy shall contain all the projects on the NWHS. Updated tapes may be provided more frequently based on the volume/importance of project updates.

Maintain a listing of NWHS users, including the user contact name, mailing address, and telephone number. Provide a copy of this list to BPA and the Council quarterly or upon request by the COTR. Provide copies of user information requests and the Corps response to the user, to BPA as they are received and processed.



Department of Energy
Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

MAY 15 1990

In reply refer to: SRPA

Mr. Ken Boire
U.S. Army Corps of Engineers
North Pacific Division
P.O. Box 2870
Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification A004, Interagency Agreement No. DE-AI79-89BP02108,
Pacific Northwest Hydropower Data Base and Analysis System

Enclosed are three copies of the subject agreement. If the terms and conditions are acceptable, please verify blocks 7 and 8, sign in block 20 on all three copies, and return them by May 16, 1990. An executed copy of the agreement will be returned to you.

Beginning May 21, 1990, the new Contracting Officer for this Interagency Agreement will be A. Ann Scholl, mail symbol SRPA, phone (503) 230-3789.


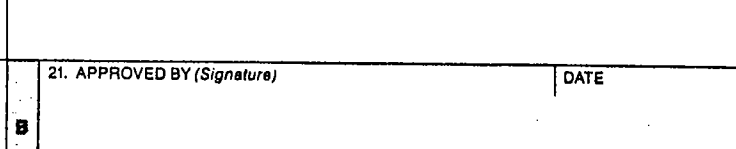
Sincerely,

A handwritten signature in cursive script that reads "Sandra A. Kageler".

Sandra A. Kageler
Contracting Officer

Enclosure

**U.S. DEPARTMENT OF ENERGY – BONNEVILLE POWER ADMINISTRATION
 AGREEMENT**

1. AGREEMENT NO. DE-AI79-89BP02108		2. AGREEMENT TYPE <input checked="" type="checkbox"/> Interagency <input type="checkbox"/> Intergovernmental <input type="checkbox"/> Intraagency <input type="checkbox"/> Customer		3. MODIFICATION NO. A004	4. EFFECTIVE DATE Same As Block 21	5. PROCUREMENT REQUEST NO. 90BP09857 90BP03625
ISSUED BY	6. ORGANIZATION AND ADDRESS U.S. Army Corps. of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870			9. ORGANIZATION AND ADDRESS U.S. Department of Energy Bonneville Power Administration - SRPA P.O. Box 3621 Portland, Oregon 97208		
	7. TECHNICAL CONTACT Thomas L. White			10. BPA TECHNICAL CONTACT Ron Holman - RMGB		
	8. ADMINISTRATIVE CONTACT Ken Boire			11. BPA ADMINISTRATIVE CONTACT George McGowan		
	PHONE NO. 326-3830			PHONE NO. (503) 230-3444		
12. THIS AGREEMENT WAS NEGOTIATED PURSUANT TO <input checked="" type="checkbox"/> 31 U.S.C. 1535 (Federal) <input type="checkbox"/> 16 U.S.C. 832g (Other) <input type="checkbox"/> 16 U.S.C. 832a(f) (Customer) <input type="checkbox"/> _____			13. AGREEMENT EFFECTIVE FROM DATE IN BLOCK 4 UNTIL September 30, 1990			
14. TITLE AND BRIEF DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS AGREEMENT; DOCUMENTS WHICH ARE ATTACHED TO AND BECOME A PART OF THIS AGREEMENT: <p align="center"><u>PACIFIC NORTHWEST HYDROPOWER DATA BASE AND ANALYSIS SYSTEM</u></p> <p>This modification is written to add additional funding of \$90,000.00 and extend the performance period approximately 4 months to September 30, 1990.</p> <p>ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.</p>						
If this is an Intergovernmental or Customer Agreement, the provisions on the reverse of this form are a part of the Agreement.						
15. AMOUNT TO BE PAID BY BPA \$ 160,000.00 NTE			16. AMOUNT TO BE PAID TO BPA \$			
17. SUBMIT INVOICE TO: Ron Holman - RMGB Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208			18. ACCOUNTING INFORMATION (BPA use only) RMGB 25 GNL T31101			
19. SUBMIT INVOICE TO: NAME _____ ADDRESS _____						
20. APPROVED BY (Signature)  DATE 16 May 90			21. APPROVED BY (Signature)  DATE			
NAME & TITLE (Type or print) Michael K. Collmeyer Colonel, Corps of Engineers Deputy Division Engineer			NAME & TITLE (Type or print) Sandra A. Kageler Contracting Officer			



Department of Energy
Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

*Jh
PL-BC*

In reply refer to: SRPA

APR 3 1990

Mr. Ken Boire
U.S. Army Corps of Engineers
North Pacific Division
P.O. Box 2870
Portland, OR 97208-2870


Dear Mr. Boire:

Subject: Modification M003 of Interagency Agreement No. DE-AI79-89BP02108,
Pacific Northwest Hydropower Data Base and Analysis System

Enclosed is your fully executed copy of the subject modification.

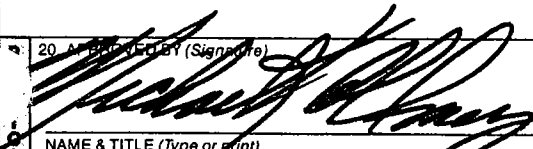
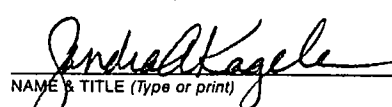
If you have any questions, please call me at (503) 230-3788.

Sincerely,


George S. McGowan
Contracting Officer's
Representative

Enclosure

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1. AGREEMENT NO. DE-AI79-89BP02108	2. AGREEMENT TYPE <input checked="" type="checkbox"/> Interagency <input type="checkbox"/> Intergovernmental <input type="checkbox"/> Intraagency <input type="checkbox"/> Customer	3. MODIFICATION NO. M003	4. EFFECTIVE DATE Same as Block 21	5. PROCUREMENT REQUEST NO. 79-90BP07934
6. ORGANIZATION AND ADDRESS U.S. Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870		9. ORGANIZATION AND ADDRESS U.S. Department of Energy Bonneville Power Administration – SRPA P.O. Box 3621 Portland, Oregon 97208		
7. TECHNICAL CONTACT Thomas White		10. BPA TECHNICAL CONTACT Ron Holman (503) 230-3444		
8. ADMINISTRATIVE CONTACT Ken Boire (503) 326-3830		11. BPA ADMINISTRATIVE CONTACT George McGowan (503) 230-3788		
12. THIS AGREEMENT WAS NEGOTIATED PURSUANT TO <input checked="" type="checkbox"/> 31 U.S.C. 1535 (Federal) <input type="checkbox"/> 16 U.S.C. 832g (Other) <input type="checkbox"/> 16 U.S.C. 832a(f) (Customer) <input type="checkbox"/> _____		13. AGREEMENT EFFECTIVE FROM DATE IN BLOCK 4 UNTIL May 16, 1990		
14. TITLE AND BRIEF DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS AGREEMENT; DOCUMENTS WHICH ARE ATTACHED TO AND BECOME A PART OF THIS AGREEMENT: <p align="center"><u>PACIFIC NORTHWEST HYDROPOWER DATA BASE AND ANALYSIS SYSTEM</u></p> <p>This modification is written as a no-cost time extension to extend the performance period 60 days to May 16, 1990.</p> <p align="center"><u>ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.</u></p>				
If this is an Intergovernmental or Customer Agreement, the provisions on the reverse of this form are a part of the Agreement.				
15. AMOUNT TO BE PAID BY BPA \$ 70,000.00 NTE		16. AMOUNT TO BE PAID TO BPA \$		
17. SUBMIT INVOICE TO: Ron Holman - RMGB Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208		18. ACCOUNTING INFORMATION (BPA use only) RMGB 25 GNL T31129⁰¹ NO CHANGE		
		19. SUBMIT INVOICE TO: NAME _____ ADDRESS _____		
20. APPROVED BY (Signature)  DATE Mar 16, 1990		21. APPROVED BY (Signature)  DATE 3-16-90		
NAME & TITLE (Type or print) MICHAEL K. COLLMEYER Colonel, Corps of Engineers Deputy Division Engineer		NAME & TITLE (Type or print) Sandra A. Kageler Contracting Officer		



Department of Energy
Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

FEB 14 1990

In reply refer to: SRPA

Mr. Ken Boire
U.S. Army Corps of Engineers
North Pacific Division
P.O. Box 2870
Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification M002, Interagency Agreement No. DE-AI79-89BP02108,
Pacific Northwest Hydropower Data Base and Analysis System

Enclosed are three copies of the subject agreement. If the terms and conditions are acceptable, please verify blocks 7 and 8, and sign in block 21 on all three copies and return them by February 15, 1990. An executed copy of the agreement will be returned to you.

Sincerely,

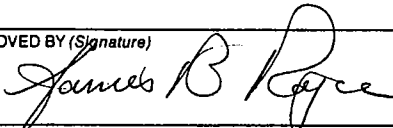

A handwritten signature in black ink, appearing to read "Sandra A. Kageler".

Sandra A. Kageler
Contracting Officer

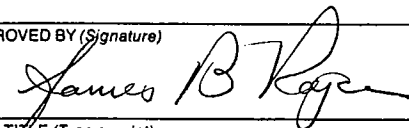

Enclosure

U.S. DEPARTMENT OF ENERGY - BONNEVILLE POWER ADMINISTRATION

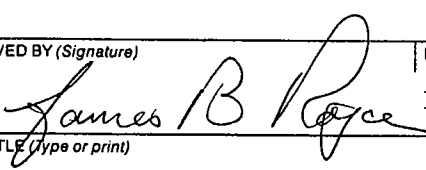

AGREEMENT

1. AGREEMENT NO. JE-AI79-89BP02108		2. AGREEMENT TYPE <input checked="" type="checkbox"/> Interagency <input type="checkbox"/> Intergovernmental <input type="checkbox"/> Intraagency <input type="checkbox"/> Customer		3. MODIFICATION NO. M002	4. EFFECTIVE DATE Same As Block 21	5. PROCUREMENT REQUEST NO.	
I S S U E D T O	6. ORGANIZATION AND ADDRESS U.S. Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870			I S S U E D B Y	9. ORGANIZATION AND ADDRESS U.S. Department of Energy Bonneville Power Administration - SRPA P.O. Box 3621 Portland, Oregon 97208		
	7. TECHNICAL CONTACT Thomas L. White				10. BPA TECHNICAL CONTACT Ron Holman		PHONE NO. (503) 230-3444
	8. ADMINISTRATIVE CONTACT Ken Boire				11. BPA ADMINISTRATIVE CONTACT George McGowan		PHONE NO. (503) 230-3788
	PHONE NO. 326-3830				PHONE NO.		
12. THIS AGREEMENT WAS NEGOTIATED PURSUANT TO <input checked="" type="checkbox"/> 31 U.S.C. 1535 (Federal) <input type="checkbox"/> 16 U.S.C. 832g (Other) <input type="checkbox"/> 16 U.S.C. 832a(f) (Customer) <input type="checkbox"/>				13. AGREEMENT EFFECTIVE FROM DATE IN BLOCK 4 UNTIL			
14. TITLE AND BRIEF DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS AGREEMENT; DOCUMENTS WHICH ARE ATTACHED TO AND BECOME A PART OF THIS AGREEMENT: <p style="text-align: center;"><u>PACIFIC NORTHWEST HYDROPOWER DATA BASE AND ANALYSIS SYSTEM</u></p> <p>This modification is written as a no-cost time extension to extend the performance period 30 days to March 17, 1990.</p> <p>ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.</p>							
If this is an Intergovernmental or Customer Agreement, the provisions on the reverse of this form are a part of the Agreement.							
15. AMOUNT TO BE PAID BY BPA \$ 70,000.00 NTE			16. AMOUNT TO BE PAID TO BPA \$				
17. SUBMIT INVOICE TO: Ron Holman - RMGB Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208			18. ACCOUNTING INFORMATION (BPA use only) RMGB 25 GNL T31129 NO CHANGE				
			19. SUBMIT INVOICE TO: NAME ADDRESS				
20. APPROVED BY (Signature)  DATE Feb 14, 1990			21. APPROVED BY (Signature)  DATE				
NAME & TITLE (Type or print) JAMES B. ROYCE, Colonel, Corps of Engineers Deputy Division Engineer			NAME & TITLE (Type or print) Sandra A. Kageler Contracting Officer				

**U.S. DEPARTMENT OF ENERGY - BONNEVILLE POWER ADMINISTRATION
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19. SUBMIT INVOICE TO: NAME ADDRESS		19. SUBMIT INVOICE TO: NAME ADDRESS		
20. APPROVED BY (Signature)  DATE Feb 14, 1990		21. APPROVED BY (Signature)  DATE		DATE
NAME & TITLE (Type or print) JAMES B. ROYCE, Colonel, Corps of Engineers Deputy Division Engineer		NAME & TITLE (Type or print) Sandra A. Kageler Contracting Officer		

**U.S. DEPARTMENT OF ENERGY - BONNEVILLE POWER ADMINISTRATION
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6. ORGANIZATION AND ADDRESS I S S U E D U.S. Corps of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870		9. ORGANIZATION AND ADDRESS I S S U E D U.S. Department of Energy Bonneville Power Administration - SRPA P.O. Box 3621 Portland, Oregon 97208		
7. TECHNICAL CONTACT PHONE NO. Thomas L. White		10. BPA TECHNICAL CONTACT PHONE NO. Ron Holman (503) 230-3444		
8. ADMINISTRATIVE CONTACT PHONE NO. Ken Boire 326-3830		11. BPA ADMINISTRATIVE CONTACT PHONE NO. George McGowan (503) 230-3788		
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17. SUBMIT INVOICE TO: Ron Holman - RMGB Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208		18. ACCOUNTING INFORMATION (BPA use only) RMGB 25 GNL T31129 NO CHANGE		
19. SUBMIT INVOICE TO: NAME _____ ADDRESS _____		19. SUBMIT INVOICE TO: NAME _____ ADDRESS _____		
20. APPROVED BY (Signature) DATE  Feb 14, 1990		21. APPROVED BY (Signature) DATE  _____		
C I P I A N T NAME & TITLE (Type or print) JAMES B. ROYCE, Colonel, Corps of Engineers Deputy Division Engineer		B P A NAME & TITLE (Type or print) Sandra A. Kageler Contracting Officer		

GENERAL PROVISIONS – INTERGOVERNMENTAL AGREEMENTS

1. OFFICIALS NOT TO BENEFIT (BAG 52.203-1)

No member of or delegate to Congress, or resident commissioner, shall be admitted to any share or part of this agreement, or to any benefit arising from it. However, this provision does not apply to this agreement to the extent that this agreement is made with a corporation for the corporation's general benefit.

2. COVENANT AGAINST CONTINGENT FEES (BAG 52.203-5)

The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this agreement upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this agreement without liability, or at its discretion, to deduct from the price or consideration, or otherwise recover, the full amount of the contingent fee.

3. CONVICT LABOR (BAG 52.222-3)

The Contractor agrees not to employ any person undergoing sentence of imprisonment in connection with performance of work under this agreement, except as provided by 18 U.S.C. 4082(c)(2) and Executive Order 11755, December 29, 1973.

4. EQUAL OPPORTUNITY

The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin.

The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to (i) employment, (ii) upgrading, (iii) demotion, (iv) transfer, (v) recruitment or recruitment advertising, (vi) layoff or termination, (vii) rates of pay or other forms of compensation, and (viii) selection for training, including apprenticeship.



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Department of Energy
Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

DEC 1 1989

In reply refer to: SRPA

Mr. Ken Boire
U.S. Army Corps of Engineers
North Pacific Division
P.O. Box 2870
Portland, OR 97208-2870

Dear Mr. Boire:

Subject: Modification MO01 of Interagency Agreement No. DE-AI79-89BP02108,
Pacific Northwest Hydropower Data Base and Analysis System

Enclosed is your fully executed copy of the subject modification.

If you have any questions, please call me at (503) 230-3788.

Sincerely,

A handwritten signature in black ink, appearing to read "George McGowan".

George McGowan
Contracting Officer's
Representative

Enclosure

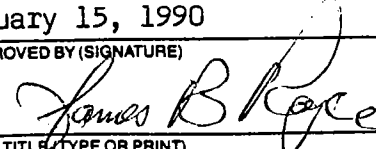
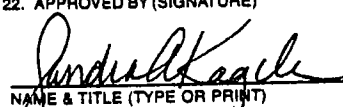
U.S. DEPARTMENT OF ENERGY - BONNEVILLE POWER ADMINISTRATION

AGREEMENT

BPA F 1270.01

(02-89)

(Previously BPA 1398)

1. AGREEMENT NO. E-AI79-89BP02108		2. AGREEMENT TYPE <input checked="" type="checkbox"/> Interagency <input type="checkbox"/> Intergovernmental <input type="checkbox"/> Intraagency <input type="checkbox"/> Customer		3. MODIFICATION NO. M001	4. EFFECTIVE DATE Same as Block 22	5. PROCUREMENT REQUEST NO.	
I S S U E D T O	6. ORGANIZATION AND ADDRESS U.S. Army Corps. of Engineers North Pacific Division P.O. Box 2870 Portland, OR 97208-2870			I S S U E D B Y	9. ORGANIZATION AND ADDRESS U.S. Department of Energy Bonneville Power Administration - SRPA P.O. Box 3621 Portland, Oregon 97208		
	7. TECHNICAL CONTACT Thomas L. White		PHONE NO. 326-3830		10. BPA TECHNICAL CONTACT Ron Holman - RMGB		PHONE NO. (503) 230-3444
	8. ADMINISTRATIVE CONTACT Ken Boire		PHONE NO. 326-3830		11. BPA ADMINISTRATIVE CONTACT George McGowan		PHONE NO. (503) 230-3788
	12. THIS AGREEMENT WAS NEGOTIATED PURSUANT TO <input checked="" type="checkbox"/> 31 U.S.C. 1535 (Federal) <input type="checkbox"/> 16 U.S.C. 832g (Other) <input type="checkbox"/> 16 U.S.C. 832a (f) (Customer) <input type="checkbox"/>				13. ACCOUNTING INFORMATION (BPA USE ONLY) RMGB 25 GNL T31129 NO CHANGE		
14. TITLE AND BRIEF DESCRIPTION OF WORK TO BE PERFORMED UNDER THIS AGREEMENT; DOCUMENTS WHICH ARE ATTACHED TO AND BECOME A PART OF THIS AGREEMENT: <p align="center"><u>PACIFIC NORTHWEST HYDROPOWER DATA BASE AND ANALYSIS SYSTEM</u></p> <p>This modification is written as a no-cost time extension to extend the performance period one year to February 15, 1990.</p> <p>ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.</p>							
If this is an Intergovernmental or Customer Agreement, the provisions on the reverse of this form are a part of the Agreement.							
15. AMOUNT TO BE PAID BY BPA \$ 70,000.00 NTE			16. AMOUNT TO BE PAID TO BPA \$				
17. SUBMIT INVOICE TO: Ron Holman - RMGB Bonneville Power Administration P.O. Box 3621 Portland, Oregon 97208			18. ACCOUNTING INFORMATION				
20. AGREEMENT EFFECTIVE FROM DATE IN BLOCK 4 UNTIL February 15, 1990			19. SUBMIT INVOICE TO: NAME _____ ADDRESS _____				
P C O N T R A C T I N G O F F I C E R	21. APPROVED BY (SIGNATURE) 		DATE 1 Dec 89	22. APPROVED BY (SIGNATURE) 		DATE 12-1-89	
	NAME & TITLE (TYPE OR PRINT) JAMES B. ROYCE Colonel, Corps of Engineers Deputy Division Engineer		NAME & TITLE (TYPE OR PRINT) Sandra A. Kageler Contracting Officer				

(VS2-SRPA-7024m)