

Meeting Date: 6/24/2014

Report Type: Consent

Report ID: 2014-00463

Title: Agreement: Lower American River Flow Management Standard Environmental Impact Report

Location: Citywide

Recommendation: Pass a Motion authorizing the City Manager, or his designee, to execute supplemental agreement No. 4 to City Agreement No. 2009-0804 with HDR Engineering, Inc., for an amount not-to-exceed \$419,000, to continue with the development of the Environmental Impact Report to update the lower American River Flow Management Standard, bringing the total agreement amount to \$1,919,993.

Contact: Tom Gohring, Executive Director, (916) 808-1998, City-County Office of Metropolitan Water Planning

Presenter: None

Department: Community Support

Division: CCOMWP

Dept ID: 80004101

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Agreement

City Attorney Review

Approved as to Form
Joe Robinson
6/17/2014 1:02:48 PM

Approvals/Acknowledgements

Department Director or Designee: Kathy Howard - 6/10/2014 2:26:44 PM

Description/Analysis

Issue: This report identifies the need for additional professional and technical services for the City-County Office of Metropolitan Water Planning (CCOMWP), which staffs and manages the Water Forum Successor Effort (WFSE). The lower American River Flow Management Standard (FMS) update project is an essential element of the Water Forum Agreement (WFA). The proposed supplemental agreement with HDR Engineering, Inc. is for additional professional and technical services necessary to develop the Environmental Impact Report (EIR) for the WFSE's proposal to update the lower American River FMS.

Policy Considerations: City Council approval is required for supplemental agreements exceeding \$100,000.

Economic Impacts: None.

Environmental Considerations:

California Environmental Quality Act (CEQA): This report concerns administrative activities that will not have a significant effect on the environment and does not constitute a "project" as defined by CEQA [CEQA Guidelines Sections 15061(b)(3); 15378(b)(2)].

Sustainability Considerations: Approval of this supplemental agreement is consistent with the City of Sacramento's Sustainability Master Plan Goals. Pursuit of a Flow Management Standard for the lower American River that is more protective of fisheries and aquatic resources is a fundamental element of the Water Forum Agreement, which is supported by the City's Sustainability Goal No. 7 - Parks, Open Space and Habitat Conservation.

Commission/Committee Action: None.

Rationale for Recommendation: Funding for the Lower American River FMS EIR was approved with adoption of the FY2014/15 CCOMWP budget. Approval of this supplemental professional services agreement is consistent with the approved budget. In July 2009, CCOMWP staff developed a scope of work for the professional services needed for this effort and solicited Qualifications Statements from consulting firms. A selection committee reviewed the qualifications received and selected HDR Engineering, Inc. as the top ranked firm to lead the project and prepare the EIR. The City Council authorized the original HDR Engineering, Inc. agreement on September 1, 2009, for an amount not-to-exceed \$1,285,993, with the adoption of Resolution No. 2009-568. On November 27, 2012 the City Council authorized an increase of \$215,000 bringing the total contract amount to \$1,500,993. Since that time, the project team has identified additional services needed from HDR Engineering, Inc. to complete the project.

Financial Considerations: This contract has no impact on the City's General Fund. There are sufficient resources for the proposed \$419,000 supplemental agreement for the WFSE in the FY2014/15 budget. This change will increase the agreement's total not-to-exceed amount to \$1,919,993. The WFSE is funded by CCOMWP through a cost share agreement among the City of Sacramento, County of Sacramento, and other cost share partners including the City of Roseville, City of Folsom, Placer County Water Agency, Sacramento Municipal Water District, San Juan Water District (Placer County Service Area), and the El Dorado County Water Agency.

Local Business Enterprise (LBE): HDR Engineering', Inc. operates a branch office in the City and qualifies as a LBE.

Background Information:

- The City and County of Sacramento created the City-County Office of Metropolitan Water Planning (CCOMWP) in 1991 to pursue a joint water planning effort in the greater Sacramento Metropolitan area.
- In 1993, a diverse group of business and agricultural leaders, citizens groups, environmentalists, water managers, and local governments formed the Sacramento Area Water Forum.
- In 1999, Water Forum members approved a comprehensive Water Forum Agreement (WFA) (C1999-222). The WFA consists of integrated actions necessary for providing a regional solution to water shortages, environmental damage, groundwater contamination, and limited economic prosperity.
- The CCOMWP has been charged with staffing the effort to implement the WFA, known as the Water Forum Successor Effort (WFSE) (C2001-005).
- Implementation of a revised flow standard that is more protective of the aquatic resources of the lower American River (LAR) is one the WFA's seven elements and is an essential task of the WFSE. These activities include preparation of an Environmental Impact Report (EIR), and submittal of a petition to the State Water Resources Control Board by the U.S. Bureau of Reclamation to add conditions to Reclamation's Folsom Reservoir water right permits that provide for flow releases to the LAR in accordance with the proposed LAR Flow Management Standard (FMS). In FY2009-2010 the CCOMWP, on behalf of the WFSE, began work on the environmental documentation, including defining the scope of work and developing a project description and project alternatives.
- In July 2009, CCOMWP staff developed a scope of work for the professional services needed for this effort and solicited Qualifications Statements from consulting firms. A selection committee reviewed the qualifications received and selected HDR Engineering, Inc. as the top ranked firm to lead the project and prepare the EIR.
- City Council authorized the original HDR Engineering, Inc. agreement on September 1, 2009, for an amount not-to-exceed \$1,285,993 (City Agreement No. 2009-0804). On November 27, 2012 City Council authorized an increase of \$215,000 for this work bringing the total amount to \$1,500,993. Since that time, the project team has identified additional services needed from HDR Engineering, Inc. to complete the project requiring additional funding of \$419,000.

- The Agreement's original scope of services included 7 Phases/Tasks:
 1. Pre-Modeling and EIR Planning Activities
 2. Hydrologic Modeling and Impact Analysis for Water-Related Environmental Resources
 3. Impact Analysis for Other Environmental Resources and Preparation of Administrative Draft EIR
 4. Public Draft EIR
 5. Final EIR
 6. Water-Related Environmental Resources Through Administrative Draft EIR
 7. Hydrologic and Water Temperature Modeling

- As a result of continued regularity changes, the environmental baseline will be changed to reflect current, modeled, representation of the regulatory baseline that is used by the state and federal governments. Task 9 is developed to address key stakeholder concerns, create collaboration between key stakeholders, their consultants and Water Forum interests. This task is aimed at modeling hydrologic and water temperature issues associated from this collaborative process.
 8. Water-Related Environmental Resources Through Administrative Draft EIR
 9. Hydrologic and Water Temperature Modeling

- When the Administrative Draft EIR is completed (anticipated to occur approximately March 2015) staff plans to return to the City Council to request approval of additional services necessary for completion of the Public Draft EIR and Final EIR, as well as the additional funding required for these services.



Requires Council Approval: No YES Meeting: 06/24/14

Real Estate Other Party Signature Needed Recording Requested

General Information

Type: Professional Services Attachment: Supplement Number: 4
PO Type: Non-Comp-Prof Service Original Document Number: 2009-0804
\$ Not to Exceed: \$ 419,000 Original Contract Amount: \$ 1,285,993
Other Party: HDR Engineering, Inc. Deed: [X]None []Included []Separate
Project Name: EIR for Lower American River FMS No. Certified Copies of Document:
Project Number:
Bid Transaction #: LBE:

Department Information

Department: Citywide & Community Support Division: CCOMWP
Project Mgr: Tom Gohring Supervisor: Tom Gohring
Contract Services: Kathy Howard Date: 06/11/14 Division Mgr: Tom Gohring
Phone Number: 808-1995 Org Number: 80004101
Comment: Supplement is double sided

Review and Signature Routing

Department Signature or Initial Date
Project Mgr: Tom Gohring
Accounting: Kathy Howard 06/11/14
Contract Services: Kathy Howard [initials] 06/11/14
Supervisor: Tom Gohring [initials]
Division Manager: Tom Gohring [initials] 6/16/14
City Attorney Signature or Initial Date
City Attorney: Joe Robinson [initials] 6-16-14

[] Send Interoffice Mail [X] Notify for Pick Up

Authorization Signature or Initial Date
Tom Gohring
Department Director: [initials] 6/16/14
City Mgr: yes [X] No []

Contract Cover/Routing Form: Must Accompany ALL Contracts; however, is not part of the Contract

For City Clerk Processing
Finalized:
Initial:
Date:
Imaged:
Initial:
Date:
Received:
(City Clerk Stamp Here)

SUPPLEMENTAL AGREEMENT

Project Title and Job Number: EIR for Lower American River FMS
Purchase Order #: 21951

Date: 6/5/14
Supplemental Agreement No.: 4

The City of Sacramento ("City") and HDR Engineering, Inc. ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2009-0804 including any and all prior supplemental agreements modifying the agreement (the agreement and supplemental agreements are hereafter collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. The scope of Services specified in Exhibit A of the Agreement is amended as follows:
 - A. Contractor shall perform the additional services described in Task Order 8 and Task Order 9, attached hereto and incorporated herein.
 - B. The period of performance under this Agreement is extended through 12/31/2015.
2. In consideration of the additional and/or revised services described in section 1, above, the maximum not-to-exceed amount that is specified in Exhibit B of the Agreement for payment of Contractor's fees and expenses, is increased by \$419,000, and the Agreement's maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	<u>\$1,285,993</u>
Net change by previous supplemental agreements:	<u>\$215,000</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>\$1,500,993</u>
Increase by this supplemental agreement:	<u>\$419,000</u>
New not-to exceed amount including all supplemental agreements:	<u>\$1,919,993</u>
3. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 2, above, shall constitute full compensation for the additional and/or revised services specified in section 1, above, and shall fully compensate Contractor for any and all direct and indirect costs that may be incurred by Contractor in connection with such additional and/or revised services, including costs associated with any changes and/or delays in work schedules or in the performance of other services or work by Contractor.
4. Contractor warrants and represents that the person or persons executing this supplemental agreement on behalf of Contractor has or have been duly authorized by Contractor to sign this supplemental agreement and bind Contractor to the terms hereof.
5. Except as specifically revised herein, all terms and conditions of the Agreement shall remain in full force and effect, and Contractor shall perform all of the services, duties, obligations, and conditions required under the Agreement, as supplemented and modified by this supplemental agreement.

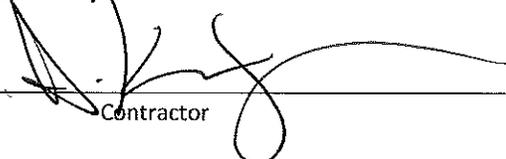
Approval Recommended By:


Project Manager

Approved As To Form By:


City Attorney

Approved By:


Contractor

Attested To By:

Approved By:

City of Sacramento

City Clerk

**TASK ORDER 8
SCOPE OF WORK**

FOR THE

**CITY OF SACRAMENTO
CITY-COUNTY OFFICE OF METROPOLITAN WATER PLANNING**

**LOWER AMERICAN RIVER FLOW MANAGEMENT STANDARD
ENVIRONMENTAL IMPACT REPORT**

**PREPARED BY
HDR ENGINEERING, INC.**

Introduction

HDR Engineering, Inc. (HDR) has been requested to prepare a Scope of Work and Cost Estimate for Task Order 8 to provide additional environmental support and regulatory compliance services to the City-County Office of Metropolitan Water Planning (Water Forum) for the processing and preparation of documentation required under the California Environmental Quality Act (CEQA) for the Lower American River Flow Management Standard (FMS) Environmental Impact Report (EIR).

HDR received Scope of Work and Master Contract No. 2009-0804 (Master Contract) during 2009 for development of the FMS EIR, which included project planning and initiation activities, including coordination with lead, responsible, trustee and cooperating agencies, and key stakeholder representatives; and preparation of a Public Scoping Summary, Administrative Draft EIR, Public Draft EIR and Final EIR, including project team coordination activities necessary to prepare the responses to public and agency comments received on the Public Draft document.

Through December 13, 2013, HDR has performed work activities under this master contract pursuant to seven previously issued task orders. Task Order 7 was executed on September 18, 2013 and is ongoing. It superseded task orders 5 and 6, as well as the Master Contract and identified additional work activities to be performed by HDR to support the Water Forum in the CEQA process for the FMS EIR.

Due to the complex nature of Lower American River issues, several new and previously unforeseen task activities, as well as increases in the previously anticipated level of effort associated with the tasks described in Task Order 5 and Task Order 6 have arisen. Task Order 7 included additional funding for expanded lower American River hydrologic and water temperature modeling efforts. Task Order 8 (this Task Order) includes additional funding and expanded scope for efforts associated with conducting the EIR analyses including:

- (1) The development and narrative characterization of the CEQA Existing Condition, the No Project Alternative, the Proposed Project Alternative, and other Action Alternatives;
- (2) The development and application of new analytical tools and techniques (e.g., the lower American River salmon mortality model, daily red dewatering and juvenile stranding analysis, daily water temperature evaluations) to evaluate potential impacts to fisheries and aquatic resources in the lower American River;
- (3) The development of impact assessment methodologies, impact indicators and significance criteria corresponding to the new analytical tools, and evaluation of potential impacts to fisheries and aquatic resources; and
- (4) Expanded scope regarding the number of alternatives to be evaluated in the resource-specific impact assessments presented in the CEQA document;

Tasks to be completed by HDR under Task Order 8 include those tasks and project activities up to and including completion of the Public Draft EIR and compilation of public comments. These tasks include developing impact assessment methodologies, environmental consequences, and cumulative impact assessment for water-related, resource-specific environmental resources, as well as project management activities and other specific activities, as described in the following Scope of Work. Because the number of public comments received and the level of effort associated with addressing public comments is unknown at this time, addressing public comments and finalizing the EIR will be conducted under a subsequent task order.

HDR Contact Information:

Paul Bratovich or Adrian Pitts
2365 Iron Point Road, Suite 300
Folsom, CA 95630
Phone: (916) 817-4700
Fax: (916) 817-4747
Paul.Bratovich@hdrinc.com or Adrian.Pitts@hdrinc.com

TASK ORDER 8 – WATER-RELATED ENVIRONMENTAL RESOURCES THROUGH ADMINISTRATIVE DRAFT EIR

Client Name: City of Sacramento, City-County Office of Metropolitan Water Planning

Project: Lower American River Flow Management Standard Environmental Impact Report

Agreement: Professional Services Agreement for Design Services between the City of Sacramento and HDR Engineering, Inc., City Agreement No. 2009-0804, as amended.

Task Order Name: Task Order 8 – Water-Related Environmental Resources through Administrative Draft EIR

HDR Task Manager: Adrian Pitts

Statement of Work and Schedule: As directed by the City Representative(s) under the above Agreement, HDR shall perform the following tasks as described below. The budget for these subtasks is provided in Table 2. The period of performance for Task Order 8 is through December 31, 2014.

Task 8.1 *Prepare Impact Assessment Methodologies and Environmental Consequences Sections for Water-related Environmental Resources*

While similar in content, work under this task includes additional effort above that described in in Task Order 5.

As described in Task Order 5 (Task 5.2), water-related environmental resources include: (1) fisheries and aquatic resources; (2) hydrology and surface water supply; (3) hydropower; and (4) flood control. The impact assessment methodology and environmental consequences sections will include the following:

- Technical evaluation guidelines and significance criteria for use in the assessment of potential impacts
- Analytical methodology (quantitative and qualitative, as appropriate for each resource) for each of the impact topics and analysis guidelines/criteria
- Resource-specific information and data analyses
- Environmental consequences and levels of significance utilizing the technical evaluation guidelines and significance criteria

For the identified resource topics (i.e., fisheries and aquatic resources, water supply, hydropower, and flood control) the impact analyses related to river system and reservoir hydrology will be supported by the hydrologic modeling and post-processing results. Impact assessment will

include: (1) a quantitative comparison of the lower American River and other CVP\SWP potentially affected areas; and (2) assessment of the modeling result comparisons relative to the technical evaluation guidelines and significance criteria.

Task Order 5 assumed conducting quantitative evaluation of four action alternatives. However, since executing Task Order 5 the Water Forum and stakeholders have identified additional alternative scenarios to be evaluated. This Task Order assumes evaluation of a total of nine modeling scenarios (Modified FMS, Modified FMS at the Mouth of the LAR, Modified FMS with Prescriptive Adjustments, Carryover Storage Alternative, D893, a future characterization of the Modified FMS, Existing Conditions, No Project Alternative, and the cumulative condition), as described below.

Evaluation of these nine modeling scenarios assumes evaluation of eight quantitative comparisons and one qualitative comparison, as described in Table 1. Five quantitative comparisons and one qualitative comparison would be conducted as required by CEQA. One quantitative comparison is anticipated to be required for SWRCB approval of the project, while two quantitative comparisons would allow for isolation of project effects under future conditions (not required by CEQA, but important for water supply planning and decision-making purposes).

Specific methodologies will be developed to apply to evaluation fish species in each of the study areas (primary, secondary, and extended). To minimize the cost and time required to evaluate eight quantitative comparisons, the currently anticipated analytical approach, which is assumed for purposes of developing the TO 8 cost estimate, includes evaluating comparisons at differing levels of detail. Because CEQA does not require all alternatives to be evaluated at an equal level of detail, an "initial evaluation" level of effort is anticipated for five quantitative comparisons, which includes species-specific, lifestage-specific evaluation of flow and temperature at three locations in the American River using daily model results, as well as three Delta parameters from CALSIM II, and monthly flows and temperatures at three locations in the Sacramento and Feather rivers.

A species-specific, lifestage-specific "full evaluation" of flows and temperatures at five locations on the Sacramento River, three locations on the Feather River, and three locations on the American River, as well as four Delta parameters from CALSIM II, entrainment and salvage, and other analytical techniques where available (e.g., daily red dewatering in the LAR) is anticipated for three quantitative comparisons.

Evaluation of the cumulative condition, as required by CEQA (Cumulative Conditions, relative to the Existing Condition) is anticipated to be conducted qualitatively.

Table 1. Quantitative and Qualitative Evaluations Conducted under Task Order 8.

Basis	Alternative	Purpose	Level of Analyses
Existing Condition - 2006 FMS	Modified FMS – 2009 *	CEQA	Full
Existing Condition - 2006 FMS	Modified FMS @ mouth of LAR	CEQA	Initial
Existing Condition - 2006 FMS	Modified FMS with prescriptive adjustments	CEQA	Initial
Existing Condition - 2006 FMS	Carryover storage alternative *	CEQA	Initial
Existing Condition - 2006 FMS	Future 2006 FMS with climate change (FNP)	CEQA	Initial
Existing Condition - 2006 FMS	Future cumulative condition	CEQA - cumulative	Qualitative
Modified FMS – 2009 *	D893	SWRCB	Full
Future 2006 FMS with climate change (FNP)	Future proposed project with climate change	Isolate effects of Project	Full
Future cumulative condition with Project	Future cumulative condition	Isolate effects of Project	Initial and qualitative

* Modified FMS – 2009 is currently considered the preferred project. Carryover storage could become the preferred alternative in the future and, if so, the level of analyses would swap for the two comparisons. I.E., EC vs modified FMS would be analyzed at an initial level and EC vs. carryover storage would be analyzed at a full level.

Each quantitative comparison will be evaluated separately for each resource category (i.e., fisheries and aquatic resources, water supply, hydropower, and flood control).

Development of the Environmental Setting, regulatory framework, and impact assessment methodology sections of the aquatic resources, hydrology, and flood control chapters of the Administrative Draft EIR is described under Task Order 5. Task Order 8 (this task order) includes activities associated with assessment of potential resource-specific impacts and identification of appropriate mitigation measures for any identified potentially significant or

significant impacts that are not currently funded under Task Order 5 due to the expanded number of alternatives and quantitative comparisons.

Task 8.2 Task Order Management

HDR's Project Manager will oversee the management of Task Order 8. These activities include management of the project staffing, scope, budget, and schedule as specified in the task order. It is assumed that the Project Manager and Project Controller will provide up to 2 hours of effort each per month, and the Project Principal will provide up to one hour per month.

HDR will provide the Water Forum with the following:

- Monthly Project Status Reports
- Monthly Invoices

Included in these activities will be confirmation of billing codes and identification of the level of detail required to support all invoices (e.g., level of detail in work activity descriptions by all staff members, expense report receipts, etc.).

Task 8.3 Provide Carryover Storage Alternative Development Team Biological Representation and Technical Support

This task includes meeting preparation and attendance, as well as preparation and presentation of meeting materials in support of identifying biological goals, objectives, and outcomes at the Carryover Storage Alternative Development Team meetings, which is responsible for developing an alternative to the EIR that maintains specific storage recommendations. HDR assumes preparing for and participating in up to eight 4-hour meetings. Preparation for the Carryover Storage Alternative Development Team meetings includes preparation of meeting materials, including MS Power Point presentation materials. In addition to meeting preparation, HDR assumes that up to 40 hours of additional technical evaluation and support would be required from HDR's principal fisheries scientist, and up to 60 hours of support each from two technical staff.

Task Management: Adrian Pitts will serve as HDR's Task Manager for this task order.

Invoice Preparation and Payment: Activities associated with monthly invoice preparation will be provided by the HDR Folsom Office. Invoices associated with services provided will be addressed to:

Tom Gohring, Executive Director
City-County Office of Metropolitan Water Planning
Water Forum
2831 G Street, Suite 100
Sacramento, California 95816

Payment for HDR's professional services provided in support of the FMS EIR shall be directed to HDR at the address shown below.

HDR Engineering, Inc.
PO Box 3480
Omaha, NE 68103-0480

Schedule of Charges: For Task Order 8, billing rates used by HDR staff providing professional services will be based on the 2009 Schedule of Charges for HDR's Folsom Office, previously submitted to the Water Forum on July 21, 2009.

Authorized Compensation: The total overall budget for completion of activities described in this Task Order 8 is not to exceed \$187,946, unless this maximum amount is amended in writing by the City Representative. HDR may adjust the budget allocations for individual tasks, as long as the total budget for this Task Order is not exceeded.

City Authorized Representative:

Tom Gohring
Executive Director
City-Country Office of Metropolitan Water Planning

By: 

Date: 6/16/14

Consultant Authorized Representative:

~~Robert Boling~~ Holly Kennedy
~~Senior Vice President~~ Associate Vice President
HDR Engineering, Inc.

By: 

Date: 6/9/14

Table 2. Budget Summary for Task Order 8		
Task No.	Task Description	Budget
8.1	Prepare Impact Assessment Methodologies and Environmental Consequences Sections for Water-related Environmental Resources	\$129,866
	Additional Funding associated with increased effort under Task Order 8	\$129,866
8.2	Task Order Management	\$9,942
	Additional Funding associated with increased effort under Task Order 8	\$9,942
8.3	Carryover Storage Alternative Development	\$48,138
	Attend Carryover Storage Alternative Development Team Meetings	\$8,218
	Prepare Materials for Carryover Storage Alternative Development Team Meetings	\$10,127
	Technical Evaluation/Support	\$29,792
	Task Order 8 Total	\$187,946

**TASK ORDER 9
SCOPE OF WORK**

FOR THE

**CITY OF SACRAMENTO
CITY-COUNTY OFFICE OF METROPOLITAN WATER PLANNING**

**LOWER AMERICAN RIVER FLOW MANAGEMENT STANDARD
HYDROLOGIC AND WATER TEMPERATURE MODELING**

**PREPARED BY
HDR ENGINEERING, INC.**

Introduction

HDR Engineering, Inc. (HDR) has been requested to prepare a Scope of Work and Cost Estimate for Task Order 9 to provide environmental support and regulatory compliance services to the City-County Office of Metropolitan Water Planning (Water Forum) for the processing and preparation of documentation required under the California Environmental Quality Act (CEQA) for the Lower American River Flow Management Standard (FMS) Environmental Impact Report (EIR).

HDR received Scope of Work and Master Contract No. 2009-0804 (Master Contract) during 2009 for development of the FMS EIR, which included project planning and initiation activities, including coordination with lead, responsible, trustee and cooperating agencies, and key stakeholder representatives; and preparation of a Public Scoping Summary, Administrative Draft EIR, Public Draft EIR and Final EIR, including project team coordination activities necessary to prepare the responses to public and agency comments received on the Public Draft document.

Through December 13, 2013, HDR has performed work activities under this master contract pursuant to seven previously issued task orders. Task Order 7 was executed on September 18, 2013 and is ongoing. It superseded task orders 5 and 6, as well as the Master Contract and identified additional work activities to be performed by HDR to support the Water Forum in the CEQA process for the FMS EIR.

Due to the complex nature of Lower American River issues, several new and previously unforeseen task activities, as well as increases in the previously anticipated level of effort associated with identified tasks, have arisen as a result of ongoing technical, political, and strategic actions that have occurred since September 2013. Task Order 9 (this Task Order) includes additional funds to support ongoing activities not addressed by Task Order 5, Task Order 6, or Task Order 7. A second new task order, Task Order 8, is similarly proposed to augment the environmental analysis previously included as part of Task Order 5.

Changed conditions since September 2013 necessitate an additional level of effort to

complete several activities related to:

- (1) Lower American River hydrologic and water temperature modeling;
- (2) The appropriate characterization of assumptions used to describe CVP/SWP system-wide hydrologic modeling conducted for the FMS EIR; and
- (3) Expanded scope.

Tasks to be completed by HDR under Task Order 9 include those hydrologic and water temperature tasks and project activities up to and including completion of the Administrative Draft EIR. Task Order 9 specifically addresses hydrologic and water temperature modeling activities and associated quality control and provides a continuation to the work previously completed under Task Order 7.

HDR Contact Information:

Paul Bratovich or Jeffrey Weaver
2365 Iron Point Road, Suite 300
Folsom, CA 95630
Phone: (916) 817-4700
Fax: (916) 817-4747
Paul.Bratovich@hdrinc.com or Jeffrey.Weaver@hdrinc.com

TASK ORDER 9 – HYDROLOGIC AND WATER TEMPERATURE MODELING

Client Name: City of Sacramento, City-County Office of Metropolitan Water Planning

Project: Lower American River Flow Management Standard Environmental Impact Report

Agreement: Professional Services Agreement for Design Services between the City of Sacramento and HDR Engineering, Inc., City Agreement No. 2009-0804, as amended.

Task Order Name: Task Order 9 – Hydrologic and Water Temperature Modeling

HDR Task Manager: Jeffrey Weaver

Statement of Work and Schedule: As directed by the City Representative(s) under the above Agreement, HDR shall perform the following tasks as described below. The budget for these tasks is provided in Table 9-1. The period of performance for Task Order 9 is through December 31, 2014.

Modeling activities performed under this Task Order will be used to assess potential impacts of the Proposed Project and Alternatives. Activities included under this Task Order are related to model output development for application to resource-specific analyses in the Administrative Draft EIR. This Task Order assumes four Action Alternatives: (1) Modified FMS, (2) Modified FMS at the Mouth of the American River, (3) Modified FMS without Prescriptive Adjustments; and (4) a Carryover Storage alternative developed jointly with Placer County Water Agency consultants, in addition to the Existing Condition, No Project (Future), Proposed Project (Future), and Regulatory Baseline (D893) scenarios. Cumulative condition alternatives (with and without the Proposed Project) will be qualitatively evaluated, and modeling from the other scenarios will be used where quantitative analysis is necessary in the EIR.

All impact evaluations associated with water supply, water quality, and hydropower, as well as any other writing directly for the EIR, shall be included in a separate task order.

Task 9.1 Modeling Coordination

Modeling efforts conducted for the FMS EIR will continue to include discussions among modeling specialists, other EIR team members, Water Forum representatives, and stakeholders to identify alternative modeling scenarios, define model inputs and outputs, as well as characterize operations under various alternatives. This task assumes HDR modeling specialists will prepare for and attend both bi-weekly technical team meetings and modeling team conference calls for 12 months, along with bi-monthly meetings with water purveyors and their consultants. Validation of modeling results and iterative refinement of outputs for specific alternatives will also continue. HDR anticipates participation in periodic meetings with purveyor consultants to coordinate on the development of a “Carryover Storage” alternative in the process of being

jointly developed by the Water Forum along with purveyors' consultants. Additionally, this task provides for modeling specialists to coordinate during troubleshooting of modeling anomalies. Lastly, while the writing of the DEIR sections related to water resources, hydropower generation, and, and flood management would be handled as part of Task Order 8, this task includes coordination with other study authors to provide guidance about the DEIR modeling.

Task 9.2 Finalize Modeling Approach and the Modeling Technical Memorandum

HDR provided a draft modeling technical memorandum for review by the Water Forum under Task Order 6 and Task Order 7. Under this Task 9.2, modeling specialists will respond to comments, revise the technical memorandum, conduct a final technical review, and provide a final Technical Memorandum to the Water Forum.

Task 9.3 System-wide Modeling

Modeling activities performed under this subtask will result in development of materials to be used to assess potential effects of the FMS Proposed Project and Alternatives on reservoir storage and elevation, and instream flow-related aquatic and surface water resources impacts throughout the Central Valley Project (CVP) and State Water Project (SWP) System. These analyses will support the impact conclusions presented in the Administrative Draft EIR.

This task includes model input file set-up utilizing the most recent and appropriate CALSIM II studies data files (i.e., the 2011 Department of Water Resources [DWR] SWP Delivery Reliability Report (DRR) studies or other appropriate model run, with appropriate updates or refinements to be determined in consultation with the project agencies), individual simulation and post-processing application development, preliminary review and assessment of modeling output, model refinement, one iterative re-simulation, as necessary, and development of model output templates (e.g., comparative matrices for resource impact assessments). Models and related procedures or applications to be utilized as part of the post-processing and output template development are described below.

The Carryover Storage Alternative, to be developed in conjunction with PCWA consultants, will require multiple iterations and will entail substantial review. While the meetings for the modeling are included in Task 9.1, development of the Carryover Storage alternative is specifically included in Task 9.3. Completion of the Carryover Storage Alternative assumes PCWA's consultants provide relevant information in a timely and complete manner. Other potential alternatives, such as a "modified unimpaired flow alternative" are not included. The following elements are included in this subtask:

- Coordination between technical and modeling team members regarding refinement of the simulation characterizations, as agreed to with USFWS, NMFS, CDFG, and other key stakeholders
- Refining municipal and industrial (M&I) demands
- Finalizing modeling scenarios (assumes no more than eight scenarios)
- Refining the model representation of alternatives
- Coordinating with the resource evaluation teams regarding specific data output, content, and format

- Developing, reviewing, and modifying model output
- Developing and reviewing comparative matrices for resource impact assessments

This Task Order assumes that the specific assumptions, simulations, and comparisons will be reviewed, approved, and finalized, as a result of input from the Project Management Team. Additional simulations or comparisons may be identified as a result of these meetings. Should this occur, HDR and/or cbec, Inc. (depending upon the subtasks affected) will prepare a scope and cost amendment for any additional modeling activities not already covered by this Task Order.

The modeling activities and anticipated progression are described in detail below.

HDR will conduct computer simulations (modeling) of the U.S. Department of Interior, Bureau of Reclamation's (Reclamation) CVP and DWRs SWP surface water systems to provide data to evaluate the potential changes in water system characteristics, including reservoirs and waterways of the Lower American River and regional study area, including Delta operations.

Multiple modeling tools will be utilized to generate data for the resource analyses. Models and related procedures/applications to be utilized include:

- Most recent DWR SWP DRR studies
- Reclamation's American River Temperature Model
- Reclamation's Sacramento River Temperature Model
- DWR's State Water Project Power Model
- Reclamation's Central Valley Project Power Model

Task 9.4 Focused Lower American River Modeling

Monthly mass-balance storage, flow, and water temperature models do not provide a fine enough temporal scale to identify potential impacts on a weekly, daily, or diurnal time scale. These monthly models provide boundary condition information and general operational guidelines over an extended period of record, applicable to a more focused, detailed model application. It is presently anticipated that the flow and water temperature output for evaluation of potential impacts will be facilitated by utilization of the hydrodynamic HEC-RAS water temperature model for the Lower American River, by cbec, Inc., under separate contract with the Water Forum. For this Task Order 9, the models and tools identified in Task 9.2 will be used to simulate Folsom Reservoir and Lower American River conditions on a monthly time step, as boundary condition inputs to the HEC-RAS model. The suite of models will then be used to evaluate various scenarios by changing boundary condition assumptions. This Task 9.3 provides for HDR modeling support to refine boundary condition inputs and model outputs to be incorporated into the HEC-RAS modeling conducted for the Lower American River by cbec, Inc.

Task 9.5 Produce Model Output

HDR's modeling process includes the production of charts and tables with output for use in environmental impact determination for several resource disciplines.

HDR will produce modeling output for each simulation and impact analysis comparison

required to conduct the resource-specific impact analyses for CEQA alternatives comparisons selected for evaluation, and will perform quality control checks on the output to ensure it accurately represents model output. The model output also will be compiled into template format to provide graphic and tabular representation of the data used by resource experts to evaluate the potential project-specific impacts relative to baseline conditions. It is expected that the modeling output will be provided on a DVD for inclusion as a technical appendix to the Administrative Draft EIR. The task also includes the generation and explanation of DEIR-specific modeling output, as needed.

Task 9.6 Review of Preliminary Bay Delta Conservation Plan Documents

The State of California is in the process of developing the Bay Delta Conservation Plan (BDCP) for compliance with the Federal Endangered Species Act (ESA) and the California Natural Communities Conservation Planning Act (NCCPA). When complete, the BDCP will provide the basis for the issuance of incidental take authorization of endangered species associated with operation of the state and federal water projects. The plan would be implemented over the next 50 years. The heart of the BDCP is a long-term conservation strategy that includes covered activities and conservation actions intended to allow ongoing operation of the CVP and SWP, while providing ecosystem restoration in the Delta.

HDR will review the BDCP on the behalf of the Water Forum to: (1) evaluate the BDCP's consistency or differences with the Water Forum efforts; (2) identify areas of potential concern with respect to the Water Forum goals and objectives; (3) identify potential alternate conclusions based on existing analyses; (4) identify potential alternate methods of evaluating existing data; and (5) identify areas of confusion associated with incomplete documentation of evaluation methodology.

HDR will specifically review the BDCP's hydrological modeling of the 2006 FMS and its affects on Folsom Reservoir storage and American River purveyor deliveries, and fishery evaluation associated with flows and temperatures on the American River between Nimbus Dam and its confluence with the Sacramento River. Review will be limited to aquatics-related material (i.e., not riparian or terrestrial), modeling tools specifically being used for the Water Forum on the American River (i.e., not Feather River models), and on actions specifically under consideration by the Water Forum (i.e., not restoration actions).

HDR will provide the Water Forum with comments on the 2013 draft BDCP chapters, as they become available. Specific chapters with a nexus with Water Forum interests that could be at least partially reviewed include:

- Chapter 2 – Existing Ecological Conditions
- Chapter 3 – Conservation Strategy
- Chapter 4 – Covered Activities
- Chapter 5 – Effects Analysis
- Chapter 6 – Plan Implementation
- Chapter 7 – Implementation Structure
- Chapter 9 – Alternatives to Take

The cost estimate assumes a maximum of 40 hours each from Mr. Bratovich and his fisheries

analysis team members, and 16 hours each from Mr. Link and Mr. Weaver, and 40 hours each for other members of the hydrologic modeling team. HDR will provide its comments to the Water Forum in the form of a spreadsheet, citing specific chapters, pages, and lines of BDCP text.

In a separate deliverable, HDR will provide a narrative discussion of similarities/differences between the modeling incorporated for the BDCP and the Water Forum for inclusion in the Water Forum Modeling Tech Memorandum. This discussion will include a description of the similarities and differences of the approaches used for climate change analysis for the two projects.

Task Order 7 included funding for a review of the BDCP documents, but that funding was allocated to model coordination and system-wide modeling as a result of unforeseen and unanticipated expansion of services at the request of the Water Forum executive director. Therefore, this task represents a re-funding of the BDCP review

Task 9.7 Check Consistency with Updated Publicly-Available CALSIM II Modeling

DWR is expected to release a 2013 Delivery Reliability Report and associated modeling in January 2014, and other ongoing processes may make public releases of their CALSIM II models on a similar timeframe. It is expected that newly available CALSIM II runs will include similar updates compared to the 2011 DRR run. HDR and the Water Forum will identify one of the publicly available models to check for consistency with modeling completed using the 2011 DRR. HDR will conduct a review of one of the publicly-available model and its output, and will implement the updates developed under Task 9.3 for the 2006 FMS Alternative to the corresponding scenario for the newly available CALSIM II run. Working with cbec, Inc., a Modified FMS Alternative (or a different preferred alternative, if applicable) will also be developed using the newly available CALSIM II simulation as a base, and the relative effects of the Modified FMS Alternative, compared to the 2006 FMS Alternative similarly developed on the newly available CALSIM II base, will be evaluated to ensure consistency with conclusions drawn in the evaluation of previously-completed simulations. If substantial and important differences are found between the two model bases, the Water Forum and its consultants will discuss whether further updates and evaluation are necessary. Any additional updates and evaluation using the newly available CALSIM II run are included in Task 9.8.

Task 9.8 Additional Updates and Analysis Using Updated DWR Modeling

If explicitly instructed by the Water Forum Program Manager, HDR will perform additional updates and analyses of CALSIM II, Reclamation Water Temperature Model, and DWR/Reclamation power generation model output of Water Forum alternatives developed using the newly available CALSIM II run as a base. These updates and analysis will be limited to alternatives already identified and screened through previous processes (a maximum of 8 alternatives), and it is expected that model output will be generated and post-processed using a similar process as described under Task 9.5

Task 9.9 Task Order Management

Most of the general project management activities associated with preparation of the Administrative Draft EIR will be conducted under Task Order 8. However, the additional time requirements associated with authoring monthly project status reports and conducting monthly invoicing for Task Order 9 are accounted for under this Task 9.9. These activities include management of the project scope, budget and schedule as specified in the task order.

HDR will provide the Water Forum with the following:

- Monthly Project Status Reports
- Monthly Invoices

Included in these activities will be confirmation of billing codes and identification of the level of detail required to support all invoices (e.g., level of detail in work activity descriptions by all staff members, expense report receipts, etc.).

Task Management: Jeffrey Weaver will serve as HDR's Task Manager for this task order (Task Order 9).

Invoice Preparation and Payment: For this task order (Task Order 9), activities associated with monthly invoice preparation will be provided by the HDR Folsom Office. Invoices associated with services provided will be addressed to:

Tom Gohring, Executive Director
City-County Office of Metropolitan Water Planning
Water Forum
2831 G Street Suite 100
Sacramento, California 95816

Payment for HDR's professional services provided in support of the FMS EIR shall be directed to HDR at the address shown below.

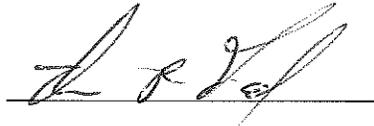
HDR Engineering, Inc.
PO Box 3480
Omaha, NE 68103-0480

Schedule of Charges: For Task Order 9, billing rates used by HDR staff providing professional services will be based on the 2009 Schedule of Charges for HDR's Folsom Office, previously submitted to the Water Forum on July 21, 2009.

Authorized Compensation: The total overall budget for completion of activities described in this Task Order 9 is not to exceed **\$230,207** unless this maximum amount is amended in writing by the City Representative. HDR may adjust the budget allocations for individual tasks, as long as the total budget for this Task Order is not exceeded.

City Authorized Representative:

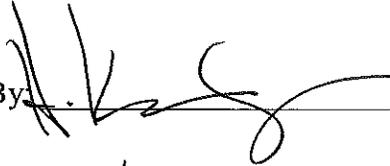
Tom Gohring
Executive Director
City-Country Office of Metropolitan Water Planning

By: 

Date: 6/14/14

Consultant Authorized Representative:

~~Ed Luttrell~~ Holly Kennedy
Senior Vice President Associate Vice President
HDR Engineering, Inc.

By: 

Date: 6/9/14

Table 9-1. Budget Summary for Task Order 9

Task No.	Task Description	Budget
9.1	Modeling Coordination	\$54,056
9.2	Finalize Modeling Approach and the Modeling Technical Memorandum	\$28,867
9.3	System-wide Modeling	\$41,229
9.4	Focused Lower American River Modeling	\$5,782
9.5	Produce Model Output	\$16,364
9.6	Review Preliminary BDCP Documents	\$45,137
9.7	Check Consistency with Updated Publicly-Available CALSIM II Modeling	\$8,827
9.8	Additional Updates and analysis using Updated Publicly Available Modeling	\$17,904
9.9	Task Order Management	\$12,041
Task Order 9 Total		\$230,207



CERTIFICATE OF LIABILITY INSURANCE

6/1/2015

DATE (MM/DD/YYYY)
5/28/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME:	
	PHONE (A/C, No, Ext):	FAX (A/C, No):
	E-MAIL ADDRESS:	
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED 1013472 HDR ENGINEERING, INC. 8404 INDIAN HILLS DRIVE OMAHA, NE 68114-4049	INSURER A: Hartford Fire Insurance Company	19682
	INSURER B: Travelers Property Casualty Co of America	25674
	INSURER C: New Hampshire Insurance Company	23841
	INSURER D: Lexington Insurance Company	19437
	INSURER E: National Union Fire Ins Co Pittsburgh PA	19445
	INSURER F:	

COVERAGES HDRIN01 CERTIFICATE NUMBER: 12913854 REVISION NUMBER: XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input checked="" type="checkbox"/> LOC <input type="checkbox"/> OTHER	Y	Y	37CSEQU0950	6/1/2014	6/1/2015	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
A A A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y	37CSEQU0951 (AOS) 37CSEQU0952 (HI) 37CSE1160 (MA)	6/1/2014 6/1/2014 6/1/2014	6/1/2015 6/1/2015 6/1/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0	N	N	ZUP-10R64084-14-NF (EXCLUDES PROF. LIAB)	6/1/2014	6/1/2015	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$ XXXXXXXX
C C E	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N N	N/A	027527762 (AOS) 027527764 (ME) 027527763 (CA)	7/1/2014 7/1/2014 7/1/2014	7/1/2015 7/1/2015 7/1/2015	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	ARCHS & ENGS PROFESSIONAL LIABILITY	N	N	061853691	6/1/2014	6/1/2015	PER CLAIM: \$1,000,000. AGG: \$1,000,000.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 RE: LOWER AMERICAN RIVER FLOW MANAGEMENT STANDARD ENVIRONMENTAL IMPACT REPORT, TO 8 & 9, THE CITY OF SACRAMENTO, ITS OFFICIALS, EMPLOYEES AND VOLUNTEERS ARE NAMED AS ADDITIONAL INSURED ON GENERAL LIABILITY AND AUTO ON A PRIMARY, NON-CONTRIBUTORY BASIS, AS PER WRITTEN CONTRACT. WAIVER OF SUBROGATION APPLIES WHERE ALLOWABLE BY LAW. SEVERABILITY OF INTERESTS APPLIES. 30 DAYS NOTICE OF CANCELLATION APPLIES, 10 DAYS NOTICE FOR NON-PAYMENT OF PREMIUM.

CERTIFICATE HOLDER	CANCELLATION See Attachments
12913854 CITY OF SACRAMENTO ATTENTION: ANA AYALA 2831 G ST SUITE 100 SACRAMENTO CA 95816	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 

POLICY NUMBER: 37CSEQU0950

COMMERCIAL GENERAL LIABILITY

CG 20 10 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED --- OWNERS, LESSEES OR
CONTRACTORS -- SCHEDULED PERSON OR
ORGANIZATION**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

AS PER WRITTEN CONTRACT, ON A PRIMARY, NON-CONTRIBUTORY BASIS

(Information required to complete this Schedule, if not shown above, will be shown in the Declarations.)

A. Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured(s) at the location(s) designated above.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to "bodily injury" or "property damage" occurring after:

1. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
2. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

CG 20 10 07 04

POLICY NUMBER: 37CSEQU0950
LIABILITY

COMMERCIAL GENERAL

CG 20 37 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED - OWNERS, LESSEES OR CONTRACTORS
COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

ANY PERSON OR ORGANIZATION WITH WHOM YOU HAVE AGREED, THROUGH WRITTEN CONTRACT, AGREEMENT OR PERMIT, EXECUTED PRIOR TO THE LOSS, TO PROVIDE ADDITIONAL INSURED COVERAGE FOR COMPLETED OPERATIONS.

Location And Description of Completed Operations:

ANY LOCATION WHERE YOU HAVE AGREED, THROUGH WRITTEN CONTRACT, AGREEMENT OR PERMIT, EXECUTED PRIOR TO THE LOSS, TO PROVIDE ADDITIONAL INSURED COVERAGE FOR COMPLETED OPERATIONS.

Information required to complete this Schedule, if not shown above will be shown in the Declarations.

Section II - Who Is An Insured is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the schedule of this endorsement performed for that additional insured and included in the "products-completed operations hazard".

CG 20 37 07 04

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED AND
RIGHTS OF RECOVERY AGAINST OTHERS**

This endorsement modifies insurance provided under the following:

BUSINESS AUTO COVERAGE FORM

- A. Any person or organization whom you are required by contract to name as additional insured is an "insured" for LIABILITY COVERAGE but only to the extent that person or organization qualifies as an "insured" under the WHO IS AN INSURED provision of Section II - LIABILITY COVERAGE.
- B. For any person or organization for whom you are required by contract to provide a waiver of subrogation, the Loss Condition - TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US is applicable.

Name of Additional Insured Person(s) of Organization(s):

Blanket coverage as required by written contract.

Hartford Form #HA9913

WORKERS' COMPENSATION AND EMPLOYERS LIABILITY INSURANCE POLICY

POLICY NUMBER: 027527762

WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit any one not named in the Schedule.

Schedule

ALL PERSONS AND/OR ORGANIZATIONS THAT REQUIRE IN A WRITTEN CONTRACT OR AGREEMENT WITH THE INSURED, EXECUTED PRIOR TO AN ACCIDENT OR LOSS, THAT WAIVER OF SUBROGATION BE PROVIDED UNDER THIS POLICY FOR WORK PERFORMED BY YOU FOR THAT PERSON AND/OR ORGANIZATION.

WC 00 03 13 (Ed. 04-84)

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HDR, INC.

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POLICY EFFECTIVE 7-01-14