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DEPARTMENT OF
UTILITIES

OFFICE OF THE DIRECTOR

CITY OF SACRAMENTO
CALIFORNIA

5770 FREEPORT BLVD.
SUITE 100
SACRAMENTO, CA
95822-2911

PH 916-433-6607
FAX 916-433-6652

July 2, 1998

Ms. Cindy Darling
Restoration Coordinator
CALFED Bay-Delta Program
1416 Ninth Street, Suite 1155
Sacramento, California 95814

Subject: City of Sacramento Fish Screen Replacement Project Proposal

Dear Ms. Darling:

The City of Sacramento (City) is pleased to offer this proposal for a fish screen replacement project at the City's water intake structure at the Sacramento River Water Treatment Plant. The overall project is intended to bring intakes at both the Sacramento River Water Treatment Plant and the E.A. Fairbairn Water Treatment Plant into compliance with current California Department of Fish and Game and National Marine Fisheries Service screening criteria and consists of three phases: 1) development and evaluation of alternatives, including environmental documentation; 2) final design and construction; and 3) monitoring and evaluation. Phase 1 of the project is nearly complete and this proposal seeks partial funding under the CALFED Category III 1998 funds for Phase 2. The cost of Phase 2 would be shared among the U.S. Bureau of Reclamation, the City of Sacramento, and CALFED/Category III.

The proposed project would meet many of CALFED's goals by reducing entrainment of juvenile chinook salmon, steelhead trout, Sacramento splittail, and green sturgeon. The Sacramento River Water Treatment Plant is an excellent candidate for fish screen improvement projects under 1998 Category III funding because of the potential for direct, immediate benefits to multiple fish species. The replacement screens could be designed to meet diversion needs through the year 2030, thereby providing long-term fisheries benefits.

Thank you for your consideration of the City's proposal and we look forward to your response.

Sincerely,

Gary Gosse

Gary Gosse
Supervisory Engineer/Project Manager

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May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Proposal Title:	City of Sacramento Fish Screen Replacement Project (Phase 2)
Applicant Name:	City of Sacramento
Mailing Address:	5770 Freeport Boulevard, Suite 100, Sacramento, California 95822
Telephone:	(916) 433-6611
Fax:	(916) 433 6652

Amount of funding requested: $ 654,500 for 1 year(s)

Indicate the Topic for which you are applying (check only one box). Note that this is an important decision: see page 8 of the Proposal Solicitation Package for more information.

- ☐ Fish Passage Assessment
- ☒ Fish Passage Improvements
- ☐ Floodplain and Habitat Restoration
- ☐ Gravel Restoration
- ☐ Fish Harvest
- ☐ Species Life History Studies
- ☐ Watershed Planning/Implementation
- ☐ Education
- ☐ Fish Screen Evaluations - Alternatives and Biological Priorities

Indicate the geographic area of your proposal (check only one box):

- ☒ Sacramento River Mainstem
- ☐ Sacramento Tributary:_____
- ☐ Delta
- ☐ East Side Delta Tributary:_____
- ☐ Suisan Marsh and Bay
- ☐ San Joaquin Tributary: _____
- ☐ San Joaquin River Mainstem
- ☐ Other: _____
- ☐ Landscape (entire Bay-Delta watershed)
- ☐ North Bay:_____

Indicate the primary species which the proposal addresses (check no more than two boxes):

- ☐ San Joaquin and East-side Delta tributaries fall-run chinook salmon
- ☒ Winter-run chinook salmon
- ☐ Spring-run chinook salmon
- ☐ Late-fall run chinook salmon
- ☐ Fall-run chinook salmon
- ☐ Delta smelt
- ☐ Longfin smelt
- ☐ Splittail
- ☒ Steelhead trout
- ☐ Green sturgeon
- ☐ Striped bass
- ☐ Migratory birds

I-008596

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May 1998 CALFED ECOSYSTEM RESTORATION PROPOSAL SOLICITATION

Indicate the type of applicant (check only one box):

☐ State agency	☐ Federal Agency
☐ Public/Non-profit joint venture	☐ Non-profit
☒ Local government/district	☐ Private party
☐ University	☐ Other: _____

Indicate the type of project (check only one box):

☒ Planning	☐ Implementation
☐ Monitoring	☐ Education
☐ Research	

By signing below, the applicant declares the following:

(I) the truthfulness of all representations in their proposal;

(2) the individual signing the form is entitled to submit the application on behalf of the applicant (if applicant is an entity or organization); and

(3) the person submitting the application has read and understood the conflict of interest and confidentiality discussion in the PSP (Section II.K) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

Gary E Closse

(Signature of Applicant)

II. Executive Summary

a. Project Title and Applicant Name:
City of Sacramento Fish Screen Replacement Project (Phase 2)
City of Sacramento, Department of Utilities
Gary E. Gosse, Project Manager
5770 Freeport Boulevard, Suite 100
Sacramento, CA 95822
Phone: (916) 433-6611
Fax: (916) 433-6652

b. Project Description and Primary Biological/Ecological Objectives: The City of Sacramento (City) is currently conducting an engineering feasibility study and environmental analysis associated with the replacement of the fish screens at the Sacramento River Water Treatment Plant (SRWTP) on the Sacramento River and the E.A. Fairbairn Water Treatment Plant (FWTP) on the lower American River (LAR). The screens need to be replaced to be consistent with current California Department of Fish and Game (CDFG) and National Marine Fisheries Service (NMFS) criteria. The project consists of three phases: 1) development and evaluation of alternatives including environmental documentation and engineering feasibility studies; 2) final design and construction; and 3) monitoring and evaluation. Phase 1 is currently in progress. This proposal seeks partial funding under the Category III 1998 funds for Phase 2, for the final design component of the Sacramento River fish screen facilities.

Replacement of the fish screens at the SRWTP will benefit CALFED priority species (i.e., chinook salmon, steelhead, and Sacramento splittail) in an area of the Sacramento River designated as critical habitat for winter-run chinook salmon.

c. Approach/Tasks/Schedule: Task 1 (Prepare Draft Final Design Report) will begin after execution of the contract, and is anticipated to be completed by December 1999. Task 2 (Review of Draft Final Design) will be completed by March 2000. Task 3 (Prepare and Distribute Final Design Report) will be completed by April 2000. Task 4 (Prepare Progress Reports) will be completed quarterly.

d. Justification for Project and Funding by CALFED: The SRWTP is an excellent candidate for fish screen improvement projects under 1998 Category III funding because of the potential for direct, immediate benefit to multiple high-risk fish species. The replacement screens could be designed to meet diversion needs through the year 2030, potentially providing long-term benefits as well. The project is consistent with CALFED ERPP objectives, as described in section "e" of the Project Description (see the CALFED ERPP Volume II, Sacramento River Ecological Zone, page 151 and pages 160-165). CALFED funding will leverage and expedite the construction and implementation of the improved fish screen.

e. Budget Costs and Third Party Impacts: The cost for Phase 2 is estimated to be $654,500. Task 1-$540,000. Task 2-$5,000. Task 3-$50,000. The cost of Task 4 is included in the other tasks. A 10% contingency has been included in the cost. The U.S. Bureau of Reclamation

previously approved a 50% cost share of Phase 1 the project under P.L. 102-575, Title XXXIV, Section 3406 (b) (21). The total cost of final design of Phase 2 for this project is estimated to be $1,400,000. The City is proposing that CALFED Category III cost-share approximately 50 percent of final design.

No adverse impacts to third parties are anticipated.

f. Applicant Qualifications: Staff of the City of Sacramento Department of Utilities operate and maintain the City's two water treatment plants (SRWTP and FWTP) as well as 29 water production wells and ten water storage tanks. The Department staff has years of experience and participation in the design and construction of many improvements to these facilities. The City of Sacramento has demonstrated local leadership and commitment to community-based planning through their efforts with the Sacramento Area Water Forum. The City's progress to date on the Fish Screen Replacement Project, as well as their co-sponsorship of the Water Forum is evidence of their capability and qualifications to successfully implement and oversee the proposed project.

g. Monitoring and Data Evaluation: Screen performance would be evaluated, in a subsequent phase of the project, through an Ecological and Biological Monitoring Plan to determine whether the screen meets hydraulic performance criteria under various river flow and pumping rates, and debris loading/fouling levels. Additional studies would be performed to estimate the relative degree of fish losses that would occur at the screen under different screen hydraulics dictated by different river flows, pumping rates, and debris-accumulation levels.

h. Local Support/Coordination with other Programs/Compatibility with CALFED Objectives: CALFED's "Summary of Technical Team Reports Stressors and Example Restoration Actions" dated June 5, 1997, identifies an example restoration action titled, "Assess feasibility, prioritize, install, upgrade, and maintain fish screens in order to decrease entrainment" as consistent with Category III funding.

The project is consistent with CALFED ERPP objectives, as described in section "e" of the Project Description (see the CALFED ERPP Volume II, Sacramento River Ecological Zone, page 151 and pages 160-165). The project is also consistent with the goals of the Central Valley Project Improvement Act and the Anadromous Fish Restoration Program.

III. Title Page

a. Title of Project: City of Sacramento Fish Screen Improvement Project (Phase 2)

b. Name of applicants(s): City of Sacramento,
Department of Utilities
City of Sacramento, Department of Utilities
5770 Freeport Boulevard, Suite 100
Sacramento, CA 95822

Gary E. Gosse, Project Manager
Phone: (916) 433-6611
Fax: (916) 433-6652

c. Type of Organization: Municipal Government Organization

d. Tax Identification Number: 94-6000410

e. Participants/Collaborators in Implementation: The City is working with the U.S. Bureau of Reclamation and the U.S. Fish and Wildlife Service on Phase 1 of this project, as evidenced by the cost-sharing agreement under the Central Valley Project Improvement Act. The City has also collaborated with the Anadromous Fish Screen Program Technical Team in the design and review process of the environmental assessment and engineering feasibility studies. The City is also coordinating with the National Marine Fisheries Service and the California Department of Fish and Game.

IV. Project Description

a. Project Description and Approach:

The existing fish screens at the City's water intake structures at the Sacramento River Water Treatment Plant (SRWTP) on the Sacramento River and the E.A. Fairbairn Water Treatment Plant (FWTP) on the Lower American River (LAR), will need to be replaced to be consistent with current California Department of Fish and Game (CDFG) and National Marine Fisheries Service (NMFS) criteria. The ultimate project consists of three phases: 1) development and evaluation of alternatives, including environmental documentation; 2) final design and construction; and 3) monitoring and evaluation. Phase 1 of the project is underway and is anticipated to be completed in December 1998. This proposal seeks partial funding under the Category III 1998 funds for the final design portion of Phase 2. The cost of Phase 2 would be shared between the City and CALFED/Category III. It is anticipated that additional cost-sharing will be sought under the Department of the Interior's Anadromous Fish Screen Program.

Although all phases of the project will include both the SRWTP and the FWTP, the City is proposing CALFED Category III only for funding of final design for the SRWTP facilities. The cost of constructing both facilities is anticipated to be over 30 million dollars. Because the project is anticipated to be cost-shared among the City, the U.S. Bureau of Reclamation, and CALFED through Category III funding, the City is currently requesting CALFED funding specifically for the final design phase of the project, and only for the SRWTP.

The CALFED ERPP describes, in the Sacramento River Ecological Zone, Reducing or Eliminating Stressors section, the need for water diversions to be effectively screened to reduce entrainment of juvenile fish, to increase survival and population abundance to levels that contribute to the overall health of the Bay/Delta Ecosystem (CALFED ERPP, Volume II, Page 151). The SRWTP and intake pier was originally designed in 1921 when no fish screen standards existed. The SRWTP began initial operations in 1924. The current mesh screen material over steel-bar grates at each of the gate openings in the pier was installed in the 1960's. Current fish screening criteria established by CDFG and NMFS require a much smaller screen mesh opening size and a lower approach velocity. Replacement and upgrading of the fish screen at the SRWTP will benefit CALFED priority species, including all four runs of chinook salmon, steelhead trout, Sacramento splittail, and green sturgeon.

Phase 1 of the project is already under way. The feasibility study has evaluated a range of alternatives, including options for replacing the screens at the existing intake structures, a proximate relocation of the SRWTP intake structure, and designing screens which would be compatible with expanded diversions at a later date to minimize construction in the river and provide long-term fish screening protection. A preferred alternative has been identified for both locations, including the location of the SRWTP intake structure, which will need to be replaced. Environmental review of the preferred alternative is currently being conducted, and the City is collaborating with the U.S. Bureau of Reclamation and the appropriate resource agencies.

The environmental review process includes agency consultation, public scoping, noticing, and preparation of administrative, public, and final drafts of NEPA/CEQA documents. The City has

solicited resource agency participation in the pre-design considerations regarding screen criteria applications, the environmental review process, and ESA consultations, including the participation of the Anadromous Fish Screen Program Technical Team.

Final design of the SRWTP fish screen and intake structure replacement will incorporate the work that has been done to date on engineering feasibility and environmental assessments. Preliminary design of the facilities is currently near completion. The City will select an engineering sub-consultant for final design of the project through a process of solicitation, review, and evaluation. The results of final design will be used to implement the construction phase of the project.

The City's costs for overseeing the project will be provided as in-kind services, and will be documented in quarterly progress reports.

b. Proposed Scope of Work:

Task 1: *Prepare Draft Final Design.* The sub-consultant selected will prepare the final design for the project, incorporating the work that has been done on engineering feasibility and environmental review, as well as feedback from the Anadromous Fish Screen Program Technical Team, the U.S. Fish and Wildlife Service and the National Marine Fisheries Service during initial coordination meetings. Final design would begin as soon as contracts are executed. The total cost of final design is estimated at $1,400,000. The City is proposing that CALFED Category III cost-share approximately half of the final design costs.
Schedule: March 1999-December 1999
Budget: $540,000
Deliverable: Draft Final Design Report.

Task 2: *Review of Draft Final Design Report.* The City will submit the Draft Final Design Report to the appropriate resource agencies, the U.S. Bureau of Reclamation, and the Anadromous Fish Screen Program Technical Team for review and comments. The comments will be assimilated and distributed to interested parties.
Schedule: January 2000- February 2000
Budget: $5,000
Deliverable: Summary of Comments.

Task 3: *Prepare and distribute Final Design.* The sub-consultant selected will incorporate all comments received on the Draft Final Design Report and distribute the Final Design Report to all interested parties.
Schedule: March 2000
Budget: $50,000
Deliverable: Final Design Report

Task 4: Prepare Progress Reports. Quarterly progress reports will be prepared describing key activities performed and deliverables submitted. Included in these reports will be financial statements describing funds spent and remaining.
Schedule: Quarterly
Budget: Included
Deliverable: Progress Reports

c. Location and/or geographic boundaries of project:
The intake pier for the City's SRWTP is located in Sacramento County in the Sacramento River downstream from the confluence of the American River. The Sacramento River water treatment plant is located east of the I-5 freeway and adjacent to and north of the Southern Pacific Railyards.

d. Expected benefit(s):
CALFED's "Summary of Technical Team Reports Stressors and Example Restoration Actions" dated June 5, 1997, identifies an example restoration action titled, "Assess feasibility, prioritize, install, upgrade, and maintain fish screens in order to decrease entrainment" as consistent with Category III funding.

The CALFED ERPP describes, in the Sacramento River Ecological Zone, Reducing or Eliminating Stressors section, the need for water diversions to be effectively screened to reduce entrainment of juvenile fish, to increase survival and population abundance to levels that contribute to the overall health of the Bay/Delta Ecosystem (CALFED ERPP, Volume II, Page 151). Replacement and upgrading of the fish screen at the SRWTP will benefit CALFED priority species, including all four runs of chinook salmon, steelhead trout, Sacramento splittail, and green sturgeon.

The primary benefit of cost-sharing and collaborative efforts on these fish screen improvement projects will be to expedite and leverage the implementation of the replacement fish screen. Secondary benefits of this project could include the use of the results to upgrade other fish screens on the Sacramento River and other areas.

An important non-ecosystem objective of this project will be the benefits to water supply in the Sacramento area. Without replacement of the fish screen, the City of Sacramento will not be able to increase pumping capacity to meet increasing demands. Third party benefits include water supply benefits to other entities dependent on water diversion from these sites (e.g. Sacramento County, Arcade Water District). Coordination of the fish screen replacement will provide the necessary protection to priority fish species compatible with water supply demands.

e. Background and Biological/Technical Justification:
The SRWTP diversion potentially affects species such as steelhead, all four runs of chinook salmon, splittail, and green sturgeon. This facility requires the fish screen replacement project to meet screening criteria to protect these species. The fish screen is located on the Sacramento River within the winter-run chinook salmon critical habitat.

The basis for expected benefit includes compliance with resource agency guidelines and occurrence of the priority species in the vicinity of the diversions. The new screening facility is anticipated to provide the most reasonably expedient and effective means of protecting juveniles of these fish species from the chronic impacts of entrainment and/or impingement. The Fish Screen Replacement Project will provide both immediate and long-term benefits to CALFED priority fish species. The City will continue to manage the fish screens to protect juvenile fish.

Phase 1 of the efforts to improve the fish screens at both of the City's diversion facilities have been underway since 1987. Preliminary pre-design work has been completed for both projects. Additionally, the U.S. Bureau of Reclamation has approved assisting with feasibility studies, environmental documentation, and construction of the fish screens associated with the Anadromous Fish Screen Improvement Program under the Central Valley Project Improvement Act (Public Law 102-575, Title XXXIV, Section 3406 (b) (21). Reclamation is authorized to contribute an amount up to, but not exceeding, 50 percent of the total cost of Phase 1 of the project.

The existing fish screen at the SRWTP intake pier has five gate openings at four different elevations. Steel bar grates with ¾-inch stainless steel mesh screens cover the gate openings in the intake pier. The ¾-inch mesh screen material was installed over the steel bar grates in the 1960's.

Recently updated fish screening criteria from CDFG and NMFS require that, in waters where steelhead fry occur, slotted openings in the screen shall not exceed 0.0689 in. which is 80% smaller than the existing opening the screen.

A 1995 engineering report commissioned by the City covered pre-design work for the expansion of the SRWTP, including a new intake pump station on the Sacramento River.

The Fish Screen Replacement Project addresses many of the CALFED Ecosystem Restoration Program Plan objectives, as listed below.

ERPP Objectives:

- Reducing or Eliminating Stressors Section, Sacramento River Ecological Zone. Objective: Water Diversions (Page 151, Volume II).
- Species Section, Sacramento River Ecological Zone. Objective: Winter-run Chinook Salmon (Page 160, Volume II).
- Species Section, Sacramento River Ecological Zone. Objective: Fall-run Chinook Salmon (Page 161, Volume II).
- Species Section, Sacramento River Ecological Zone. Objective: Spring-run Chinook Salmon (Page 162, Volume II).
- Species Section, Sacramento River Ecological Zone. Objective: Late-fall-run Chinook Salmon (Page 163, Volume II).
- Species Section, Sacramento River Ecological Zone. Objective: Steelhead Trout Salmon (Page 163, Volume II).

- Species Section, Sacramento River Ecological Zone. Objective: Striped Bass (Page 164, Volume II).
- Species Section, Sacramento River Ecological Zone. Objective: American Shad (Page 165, Volume II).

f. Monitoring and Data Evaluation:

In a subsequent phase of the project, screen performance would be evaluated to determine whether the screen meets hydraulic performance criteria under various river flow and pumping rates, and debris loading/fouling levels. Additional studies would be performed to estimate the relative degree of fish losses that would occur at the screen under different screen hydraulics dictated by different river flows, pumping rates, and debris-accumulation levels. An Ecological and Biological Monitoring Plan will be developed in Phase 3 of the project and will include the following: objectives; questions to be addressed through monitoring; personnel conducting the monitoring and their related experience; duration of planned monitoring; constituents to be monitored; sampling methods; locations and frequency of sampling; and reporting formats. Additionally, the Ecological and Biological Monitoring Plan will incorporate a Quality Assurance Project Plan for quality control and to describe analytical techniques, as well as procedures and criteria for measuring the success of the project.

Components of the Ecological and Biological Monitoring Plan specific to assessment of fish screen performance will include approach and sweeping velocities measured along the screen face under a range of river flow and pumping conditions. Approach and sweeping velocity measurements would be taken at multiple locations vertically and horizontally. Debris levels on the front of the screen as well as biological growth (i.e., algae, periphyton) on the back side of the screen would be documented each time screen hydraulics were measured. Effectiveness of screen cleaning mechanisms would be evaluated. It is presently anticipated that monitoring reports will include elements identified by the resource agencies (NMFS, USFWS, and CDFG) and submitted to them for review, as appropriate.

g. Implementability:

The SRWTP diversion is an excellent candidate for the fish screen replacement project under 1998 Category III funding because of the potential for direct, short-term benefit to multiple high-risk fish species. The replacement screen could be designed to meet diversion needs through the year 2030, potentially providing long-term benefits as well.

The participation of resource agencies, as well as the Anadromous Fish Screen Program Technical Team, has been initiated early in the process of environmental review and engineering feasibility to increase the efficiency of the process.

V. Costs and Schedule to Implement Proposed Project

a. Budget Costs:

The City proposes that CALFED Category III fund Phase 2 at the SRWTP in the amount of $654,500. Task 1-$540,000. Task 2-$5,000. Task 3-$50,000. The cost of Task 4 is included in the other tasks. A 10% contingency has been included in the total cost estimate. The U.S. Bureau of Reclamation previously approved a 50% cost share of Phase 1 the project under P.L. 102-575, Title XXXIV, Section 3406 (b) (21). The total cost of final design of Phase 2 for this project is estimated to be $1,400,000. The City is proposing that CALFED Category III cost-share approximately 50 percent of final design. The Cost Breakdown Table follows this section.

b. Schedule Milestones:

Task 1 (Prepare Draft Final Design Report) will begin after execution of the contract, and is anticipated to be completed by December 1999. Task 2 (Review of Draft Final Design) will be completed by March 2000. Task 3 (Prepare and Distribute Final Design Report) will be completed by April 2000. Task 4 (Prepare Progress Reports) will be completed quarterly. These reports will include financial summaries, describing funds spent to date and funds remaining.

c. Third Party Impacts:

No adverse impacts to third parties are anticipated.

COST BREAKDOWN TABLE—PROPOSED CALFED CATEGORY III FUNDING							
Project Phase and Task	**Direct Labor Hours**	**Direct Salary and Benefits**	**Overhead Labor (General, Admin. And fee)**	**Service Contracts**	**Material and Acquisition Contracts**	**Miscel-laneous and other Direct Costs**	**Total Cost**
Task 1			Cost Shared	540,000			540,000
Task 2				5,000			5,000
Task 3				50,000			50,000
Task 4				Included			
Contingency				59,000			59,500
						Total	**654,500**

The cost shown for service contracts will be for the cost of hiring an engineering sub-consultant to prepare the final design for the Sacramento River WTP fish screen and intake.

The City of Sacramento, in its long experience with engineering costs and requirements, has found that a minimum of seven percent of construction costs is typically required for final design. The total cost of final design for this project is estimated to be approximately $1,400,000. The City is proposing that CALFED Category III cost-share approximately 50 percent of final design.

Overhead and administrative costs for the sub-consultant are included in the service contracts estimate, but are not anticipated to exceed five percent of the cost of each task.

VI. Applicant Qualifications

Staff of the City of Sacramento Department of Utilities operate and maintain the City's two water treatment plants (SRWTP and FWTP) as well as 29 water production wells and ten water storage tanks. The Department staff has years of experience and participation in the design and construction of many improvements to these facilities.

The City of Sacramento has demonstrated local leadership and commitment to community-based planning. The City was the co-founder of the Sacramento Area Water Forum (Water Forum), and together with the County of Sacramento, has been the sponsor for Water Forum efforts. The City has also supported the Water Forum financially, contributing 5 million dollars to the Water Forum effort. The ERPP describes the previous efforts of the Water Forum. As noted in the ERPP (Volume II, Page 297), the Water Forum has identified important elements that will contribute to improving the ecological health of the LAR, including adoption of AFRP flows on the LAR, habitat mitigation, changes in operations of the water release shutters at the power penstocks of Folsom Dam, management actions to improve water temperatures in the LAR in summer and fall, and a series of fishery studies and pilot projects to determine what additional actions will need to be taken to help restore LAR chinook salmon and steelhead populations. The City's co-sponsorship of the Water Forum is evidence of their capability and qualifications to successfully implement and oversee the proposed project.

The City will select a sub-consultant for final design through a process of solicitation, review, and evaluation. The City will oversee the project, and coordinate the participants in the project. The sub-consultant will prepare the draft and final Final Design Reports.

KEY PERSONNEL:

Jim Sequeira (City of Sacramento) is the Director of Utilities for the City of Sacramento, responsible for the overall operation, maintenance, and planning associated with the City's water, sewer, drainage, and flood control functions. Mr. Sequeira acts as the City's liaison for many water and natural resource related programs, including the Sacramento Area Water Forum. Mr. Sequeira holds a Bachelor of Science degree in Biological Sciences and a Masters of Science in Civil Engineering. Previously, he was the City's Water Division Manager overseeing the administration, operation, and maintenance of three large water treatment facilities, seven distribution reservoirs, 60 wells, and over 1,300 miles of underground water mains.

Gary E. Gosse (City of Sacramento) is a Supervising Engineer with the City of Sacramento Department of Utilities. He has been with the city for the past 29 years, with the last eleven years spent with the Department of Utilities and the previous 18 years with the Public Works Department. Mr. Gosse holds a Bachelor of Science degree in Civil Engineering from the University of Arizona (1967) and a Masters of Science degree in Civil Engineering from California State University, Sacramento (1976). Currently, Mr. Gosse is supervising Phase 1 of the project, including the design, development, and evaluation of fish screen alternatives for the City's intake structures at the Sacramento River and the E.A. Fairbairn water treatment plants.

VII. Compliance with Standard Terms and Conditions

The standard terms and conditions are agreeable, and the City of Sacramento will be in compliance with the terms and conditions. Requested forms are attached.

NONDISCRIMINATION COMPLIANCE STATEMENT

ORIGINAL

ITEM 7

COMPANY NAME
City of Sacramento

The company named above (hereinafter referred to as "prospective contractor") hereby certifies, unless specifically exempted, compliance with Government Code Section 12990 (a-f) and California Code of Regulations, Title 2, Division 4, Chapter 5 in matters relating to reporting requirements and the development, implementation and maintenance of a Nondiscrimination Program. Prospective contractor agrees not to unlawfully discriminate, harass or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, disability (including HIV and AIDS), medical condition (cancer), age, marital status, denial of family and medical care leave and denial of pregnancy disability leave.

CERTIFICATION

I, the official named below, hereby swear that I am duly authorized to legally bind the prospective contractor to the above described certification. I am fully aware that this certification, executed on the date and in the county below, is made under penalty of perjury under the laws of the State of California.

OFFICIAL'S NAME
James G. Sequeira

DATE EXECUTED
July 1, 1998

EXECUTED IN THE COUNTY OF
Sacramento

PROSPECTIVE CONTRACTOR'S SIGNATURE

PROSPECTIVE CONTRACTOR'S TITLE
Director of Utilities

PROSPECTIVE CONTRACTOR'S LEGAL BUSINESS NAME
City of Sacramento

ORIGINAL ITEM 10

Agreement No. _____

Exhibit _____

NONCOLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID FOR PUBLIC WORKS

STATE OF CALIFORNIA)
)ss
COUNTY OF Sacramento)

James G. Sequeira (name), being first duly sworn, deposes and says that he or she is Director of Utilities (position title) of City of Sacramento (the bidder),

the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

DATED: July 1, 1998

By _____ (person signing for bidder)

N. C. ALLEN
Comm. # 1107422
NOTARY PUBLIC - CALIFORNIA
Sacramento County
My Comm. Expires Oct. 12, 2000

(Notarial Seal)

Subscribed and sworn to before me on July 1, 1998

_____ (Notary Public)