

DOCKET

08-AFC-13

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STATE OF CALIFORNIA

Energy Resources Conservation
and Development Commission

In the Matter of:

The Application for Certification for
the
Calico Solar Power Project
Licensing Case

Docket No. 08-AFC-13

**TESTIMONY OF INTERVENOR
COUNTY OF SAN BERNARDINO
ON MITIGATION FOR IMPACTS TO VISUAL RESOURCES**

September 16, 2010

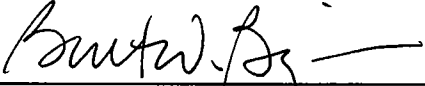
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Attorneys for Intervenor
County of San Bernardino

San Bernardino County ("County") submits the attached testimony of Roger G. Hathaway and Brendon Biggs regarding mitigation for impacts to visual resources, for consideration during the evidentiary hearing on September 20, 2010. These witnesses will be available for direct and cross examination as the Committee deems appropriate.

Dated: September 16, 2010

Respectfully submitted,
RUTH E. STRINGER
County Counsel

By  _____
BART W. BRIZZE
Deputy County Counsel
Attorneys for the County of San Bernardino

DECLARATION OF ROGER G. HATHEWAY

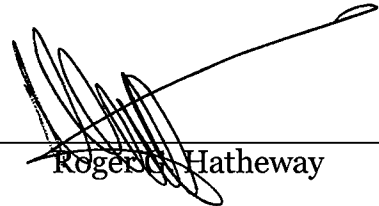
I, Roger G. Hatheway, declare as follows:

1. I am currently the Cultural Resources Specialist for the Department of Public Works for the County of San Bernardino.
2. A copy of my professional qualifications and experience is attached hereto and incorporated herein by this reference.
3. The attached document addressed to the Calico Solar Power Project and titled "DPW Concerns Regarding: Supplemental Staff Assessment, Part II" dated September 13, 2010, was either prepared by me or under my direction for San Bernardino County for, among other things, use as evidence in California Energy Commission siting case for the Calico Solar Power Project planned for construction in San Bernardino County. The information in this document and the conclusions reached are based upon data from reliable sources, my independent analysis, and my professional experience and knowledge.
4. It is my professional opinion that the prepared testimony is valid and accurate with respect to the issue(s) addressed therein.
5. I am personally familiar with the facts and conclusions related in the testimony and if called as a witness could testify competently thereto.

I declare under the penalty of perjury under the laws of the State of California that the foregoing is true and correct to the best of my knowledge and belief.

Dated: September 15, 2010

Signed: _____



Roger G. Hatheway

At: San Bernardino, California

General Qualifications/Certifications Summary

Mr. Hatheway has been a qualified Principal Investigator in the State of California since 1979. He has worked for the County of San Bernardino, Department of Public Works (DPW) since 1997. From 1997-2001 he served as the Principal Investigator for History and Architecture for the Freeway Study Team. He has subsequently served in a much more expanded capacity (2001-Present) as the in-house "Cultural Resources Specialist" for virtually all public works projects. In this capacity he has been responsible for the completion of a wide and complex variety of cultural resource surveys on behalf of the DPW, including documents prepared for federal, state, and local reviewing agencies. Large to small-scale projects have been completed under NEPA, CEQA, and National Historic Preservation Act – Section 106 guidelines. The County of San Bernardino, AIC, and the State OHP have approved Mr. Hatheway as a Principal Investigator for History, Architectural History, and Archaeology. His statewide qualifications are on file at the EIC, Riverside, California. A host of other federal and state agencies have also approved Mr. Hatheway as a qualified Principal Investigator at all levels of expertise. As an educator, Mr. Hatheway taught at UCLA for a period extending over twelve years. He is also the author of two books detailing San Bernardino County history.

ROGER G. HATHEWAY
CULTURAL RESOURCE SPECIALIST
HISTORICAL—ARCHITECTURAL—ARCHAEOLOGICAL
Department of Public Works
County of San Bernardino
825 E. Third Street
San Bernardino, CA 92415-0835

PRINCIPAL INVESTIGATOR
HISTORY, ARCHITECTURAL HISTORY, ARCHAEOLOGY
Cultural Resource Planning and Management Specialist

EDUCATION

MA, History

UCLA, 1977

BA, History

Brown University, 1975

Magna Cum Laude, Clarkson A. Collins University Prize

QUALIFICATIONS

Mr. Hatheway has worked for the County of San Bernardino, Department of Public Works (DPW) since 1997. From 1997-2001 he served as the Principal Investigator for History and Architecture for the Freeway Study Team. He has subsequently served in a much more expanded capacity (2001-Present) as the in-house “Cultural Resources Specialist” for virtually all public works projects. In this capacity he has been responsible for the completion of a wide and complex variety of cultural resource surveys on behalf of the DPW, including documents prepared for federal, state, and local reviewing agencies. Mr. Hatheway has served as the Principal Investigator for Hatheway & Associates since 1979. Architectural, historical, and archaeological experience covers the entire United States from southern California to Washington D.C. Large to small-scale projects have been completed under NEPA, CEQA, and National Historic Preservation Act – Section 106 guidelines. Mr. Hatheway has been recognized since 1979 as a Principal Investigator.

COUNTY OF SAN BERNARDINO

Select Reports Completed and Project Involvement

2009

Wilson Creek Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 22, 2009. Also involved working directly with Flood Control staff to prepare APE maps.

Elder Creek and Plunge Creek Improvement Projects, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 22, 2009. Also involved working directly with Flood Control staff to prepare APE maps.

Yucaipa Emergency Protection Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County,

November 9, 2009. Also involved working directly with Flood Control staff to prepare APE maps.

Slover Avenue, Between Larch Ave. and Cedar Ave, Signal Installation & Road Widening Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 8, 2009.

Olive Street Sidewalk and Bus Shelter, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 29, 2009.

Mount Baldy Cinder Storage Bunkers, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, August 4, 2009.

Mountain View Acres Storm Drain Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, July 7, 2009. Also involved working directly with Flood Control staff to prepare APE maps.

Maple Lane Drainage/Slope Improvements Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 18, 2009.

A Cultural Resources Survey, Determination of Eligibility Statement, and Determination of Effect for the Lilac Road Realignment Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, February 12, 2009.

Parker Road/State Route 146/Highway 95 Inventory of Historical Documents and Items of Interest, Prepared by: Roger Hatheway, Department of Public Works, San Bernardino County, Prepared at the request of Kristin Berry, USGS Riverside, October 27, 2009.

Highland Road & SH-18 Intersection Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, July 14, 2009.

Request for Duncan Road Historical Information 2/24/2009, Prepared by: Roger Hatheway, Prepared for Jacob Babico, Department of Public Works, San Bernardino County, per request County Supervisor, February 25, 2009.

Colton Avenue Rehabilitation & Widening Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 15, 2009.

Architectural and Historical Survey of Caughlin Road Improvement Project APE, Vicinity of Phelan/Baldy Mesa, California, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, March 30, 2009.

Amboy Road Overlay Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, October 19, 2009.

Daggett Ditch Inventory of Historical Documents and Items of Interest, Prepared at the request of DPW Road Maintenance, Prepared by: Roger Hatheway, Department of Public Works, San Bernardino County, October 27, 2009.

Highway 173/Arrowhead Toll Road Inventory of Historical Documents and Items of Interest, Prepared at the request of Caltrans R/W staff, Prepared by: Roger Hatheway, Department of Public Works, San Bernardino County, Fall 2009.

Big Bear Pine Avenue Historic Aerials, Prepared by: Roger Hatheway for DPW Management Staff, Department of Public Works, San Bernardino County, Fall 2009.

Desert Knolls Wash Historic Aerials, Prepared by: Roger Hatheway for DPW Management Staff, Department of Public Works, San Bernardino County, Winter 2009.

Rim Forest Historic Aerials, Prepared by: Roger Hatheway for DPW Flood Control, Department of Public Works, San Bernardino County, Winter 2009.

2008

Cultural Resources Review: Bloomington Avenue Signal Installation Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Bohnert Avenue Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Howard Street Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Linden Avenue Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Pine Street Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Pipeline Avenue Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Roswell Avenue Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, December 8, 2008.

Cultural Resources Review: Cozzens Avenue Sidewalk Improvement Project, Prepared by Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 4, 2008.

Cultural Resources Review: 48th Street Sidewalk Improvement Project, Prepared by Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, June 4, 2008.

Cultural Resources Review: California Street Sidewalk Improvement Project, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, May 30, 2008.

A National Register of Historic Places (NEPA) and California Register of Historical Resources (CEQA) Survey, Determination of Eligibility Statement, and Determination of Effect for the Lake Drive Realignment Project Crestline, California, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, May 19, 2008.

Cultural Resources Survey Results: For Four San Bernardino Mountains Roadway Improvement Projects, Prepared by: Roger Hatheway, Prepared for Environmental Management Division, Department of Public Works, San Bernardino County, April 14, 2008.

A California Register of Historical Resources Survey, Determination of Eligibility Statement, and Determination of Effect for the Turquoise Avenue Construction Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, March 19, 2008.

Architectural and Historical Survey of Duncan Road Projects APE Vicinity of Pinon Hills, California, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, March 9, 2008.

A California Register of Historical Resources Survey, Determination of Eligibility Statement, and Determination of Effect for the Opal Avenue Roadway Improvement Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, February 19, 2008.

A California Register of Historical Resources Survey, Determination of Eligibility Statement, and Determination of Effect for the Sheep Creek Road at Lindero Street Roadway Improvement Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, February 12, 2008.

A California Register of Historical Resources Survey, Determination of Eligibility Statement, and Determination of Effect for the Fifth Avenue and Walnut Street Intersection Widening Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, January 28, 2008.

A National Register of Historic Places and California Register of Historical Resources Survey, Determination of Eligibility Statement, and Determination of Effect for the Proposed Demens Basin Stockpile Reclamation Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, January 15, 2008.

2007

Debris Removal Cultural Resources Monitoring Plan Update, Prepared by: Roger Hatheway, Prepared for: Solid Waster Management Division Staff/On-Site Contractors/ECORP Staff/and Various Reviewing Agencies, December 26, 2007 (Amended January 3, 2008).

A National Register of Historic Places and California Register of Historical Resources Survey, Determination of Eligibility Statement, and Determination of Effect for Three County of San Bernardino, Department of Public Works, Cajon Boulevard Roadway Protection and Improvement Projects Located on a Portion of Historic 66 in the Cajon Pass, Prepared by: Roger Hatheway, with contributions by John Romani, Compass Rose Archaeological, Inc., Prepared for: Department of Public Works, San Bernardino County, November 9, 2007.

CEQA Cultural Resources Survey for a Proposed Vermont Street Sidewalk Project Vicinity of Muscoy, San Bernardino County, California, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, October 15, 2007.

Historical and Archaeological Survey of a Property Located at 5595 Smoke Tree Avenue, County of San Bernardino, City of Twentynine Palms, California, Prepared by: Roger Hatheway, Prepared for: Real Estate Services Department, San Bernardino County, March 31, 2007.

Field Survey Results: San Bernardino Mountains Wall Improvement Projects, Prepared by: Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, January 24, 2007.

2006

Cultural Resource Environmental Impact Evaluation for the Replacement of County Bridge #81 (Dola Ditch) and County Bridge #82 (Lanzit Ditch) Including a CRHR Eligibility Report, Alternatives Analysis, and Evaluation of Impacts, In Accordance with CEQA Guidelines, Prepared by: Roger Hatheway, with contributions by Department of Public Works Design Team Staff, Gene Huey, John Romani, and Jeanette McKenna, August 21, 2006 (Draft).

An Historical, Architectural, and Archaeological Survey and National Register Evaluation of Lytle Creek Road from the Intersection of Glen Helen Parkway on the South to the End of Pavement on the North, San Bernardino County, California, Prepared by: Roger Hatheway, Prepared for: USDA Forest Service, San Bernardino National Forest, July 4, 2006.

Historical, Architectural, and Archaeological Survey of Upper Cactus Basins 3 & 3A, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, June 9, 2006.

Garnet Street Bridge HPSR, HRER & ASR, Prepared by: Roger Hatheway and Compass Rose Archaeological, Inc., Prepared for: Department of Public Works, San Bernardino County, January 5, 2006.

Cultural Resources Review: Signal Project: Cedar Avenue at Jurupa Avenue, Prepared by Roger Hatheway, Prepared for: Environmental Management Division, Department of Public Works, San Bernardino County, January 2, 2006.

2005

An Historical, Architectural, and Archaeological Survey of an Emergency Bank Protection Project along Lytle Creek Road, 800 feet North of Green Mountain Road, San Bernardino National Forest, California, Prepared by: Roger Hatheway, with contributions by John Romani, Compass Rose Archaeological, Inc., Prepared for: USDA Forest Service, San Bernardino National Forest, October 24, 2005.

A Brief History of Paso Robles Road/Cable Canyon Road, Prepared by Roger Hatheway, Prepared for Department of Public Works and the Clerk of the Board, San Bernardino County, August 23, 2005.

Amboy Road Cultural Resources Update, Amboy Road Overlay Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, May 26, 2005.

Negative Findings: Phase I Historical, Archaeological, and Architectural Evaluation of the Institution Road Project Area, San Bernardino County, California, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, February 27, 2005.

2004

Summary: Archival/Field Investigations Wrightwood Project, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, San Bernardino County, September 13, 2004.

Daggett Quarantine/Inspection Station Historical Chronology, Prepared by: Roger Hatheway, Prepared for: Department of Public Works, August 28, 2004.

Hazard Mitigation Grant Program: Historical, Architectural and Archaeological Survey of Devore (KOA Campground), Prepared by: Roger Hatheway, Prepared for: Flood Control District, Department of Public Works, San Bernardino County, March 31, 2004.

2006-Present

Preparation of RS2477 documentation report entitled: *Mojave National Preserve County Roads Report: Part 1: Historical Overview and Part 2: Focused Histories of Individual Roads Relative to the Development of the Existing County of San Bernardino Maintained Roadway System Within or Adjacent to the Boundaries of the Mojave National Preserve*. Prepared by Roger G. Hatheway, Cultural Resources Specialist, County of San Bernardino, Department of Public Works. Contributions by: Doug Lewis, Transportation Analyst II, DPW, 2007.

2002-Present

Cultural Resources Specialist advising, as necessary, High Desert Corridor/Freeway Study Team, County of San Bernardino, Department of Public Works, regarding various tasks including preparation of project APE maps and consultant contracts.

2000-2004

Multi-year cultural resources survey (historical and archaeological) of National Trails Highway (Historic 66) timber-trestle bridges between Daggett and the I-40 Mountain Springs Road Exit.

1997-1999

Preparation of various cultural resource documents including portions of the ASR and HPSR, and all of HASR for I-15 Freeway Widening Project between Victorville and Barstow.

SELECT FEDERAL PROJECTS COMPLETED AS OWNER/PRINCIPAL INVESTIGATOR OF HATHEWAY & ASSOCIATES

Military Bases

All of the below listed studies were conducted in accordance with Federal (106) guidelines. Several were directly related to base closures and/or projected base closures. All studies addressed architectural/historical resources. Many included detailed additional historical research,

and most included sections directly addressing World War II and Post W.W. II military building types.

Edwards AFB

-A Cultural Resource Overview and Preliminary Architectural/Historical Survey.

Edwards AFB

-A Cultural Resource Survey of Various Monuments and Memorials.

China Lake Naval Weapons Center

-A Cultural Resource Overview and Preliminary Architectural/Historical Survey.

Seal Beach Naval Weapons Center

-A Cultural Resource Overview and National Register evaluation of buildings on base.

San Clemente Island, Naval Training Center and Bombing Range

-A Cultural Resource Overview and Preliminary Architectural/Historical Survey

Letterkenny Army Arsenal and Logistics Base (Pennsylvania)

-A 100% architectural/historical survey in accordance with National Register guidelines.

Nike Missile Bases (Various Locations Southern California)

-A 100% architectural/historical survey in accordance with National Register guidelines.

-Primarily on U.S. Forest Service property.

US Navy Seal Training Facility, North Island

-A 100% architectural/historical survey in accordance with National Register guidelines.

North Island Naval Air Station

-A 100% architectural/historical survey in accordance with National Register guidelines.

Camp Roberts, San Luis Obispo

-A 100% architectural/historical survey in accordance with National Register guidelines.

-Proposed Base Closure.

Terminal Island U.S. Customs House

-A 100% architectural/historical survey in accordance with National Register guidelines.

George Air Force Base

-A 100% architectural/historical survey in accordance with National Register guidelines.

-Proposed Base Closure (now closed).

Mountain Home Air Force Base

-A 100% architectural/historical survey in accordance with National Register guidelines.

-Proposed Base Closure.

PROFESSIONAL ORGANIZATIONS/ASSOCIATIONS

Mr. Hatheway is a past member of many historical societies and professional groups. He is a past-board member and past-president of the Rim of the World Historical Society. He is also a member of the:

California Council for the Promotion of History

Library of Congress, Phillip Lee Phillips Society
Society for Commercial Archaeology
National Trust for Historic Preservation
Archaeological Conservancy
Archaeological Institute of America

PUBLICATIONS/PRESENTATIONS

Mr. Hatheway is the author of two books. The first is entitled *Lake Arrowhead: Postcard History Series*. The second is entitled *Rim of the World Drive*, which is part of the popular *Images of America* series produced by Arcadia Publishing. Numerous articles authored by Mr. Hatheway focusing on the history of the San Bernardino Mountains have also appeared in the regional magazine "On the Mountain." He has also "published" or completed over 700 reports and documents during the period extending from 1979 to the present. A number of professional papers have also been published or presented. Most recent professional presentation is: "The Late Prehistory of Route 66 in the California Mojave Desert" 2001 Millennium Conference, May 9, 10, 11 & 12, Barstow, CA. The conference was sponsored by the BLM.

EMPLOYMENT HISTORY CHRONOLOGY

County of San Bernardino (1997-Present)

Initially served as the Principal Investigator for History and Architecture and as field crew member for archaeology on *the I-15 Freeway Widening Between Victorville and Barstow*. Subsequently has served as the "Cultural Resources Specialist" for the County of San Bernardino Department of Public Works.

Hatheway & Associates (1979-Present)

Mr. Hatheway has worked as a consultant to many Cultural Resource Management and/or archaeological consulting firms over the past 30+ years. In his capacity as Principal Investigator he has conducted in-depth historical research using all forms of historic maps, public records, photographs, and the written record. He has identified literally hundreds of potential historic sites and has joined with many survey crews over time in the evaluation of and on-the-ground location of these sites. Field survey experience includes the recognition, identification, evaluation and mapping of virtually every major type of building, object, feature, linear feature, site, historic archaeological site, and the identification and mapping of many inland prehistoric archaeological sites.

Hatheway & McKenna (1986-1989)

Jeanette McKenna and Roger Hatheway joined into partnership in 1986. Hatheway and McKenna served as Co-Principal Investigators on a considerable number of projects in Orange, Riverside, San Bernardino, and Los Angeles counties. Major tasks were related to history and architecture.

Scientific Resource Surveys (1983-1986)

Served as Principal Investigator for history and architecture for SRS for 3+ years. In this capacity, Mr. Hatheway also wrote numerous proposals for various archaeological surveys. Typically, however, Mr. Hatheway conducted in-depth historical research and provide all pertinent data to field survey crews, frequently joined SRS crews during field surveys, including several transportation related projects conducted in both Orange and Riverside counties.

Community Redevelopment Agency (1980-1983)

Principal Investigator and sole CRM consultant to the Community Redevelopment Agency, City of Los Angeles. Completed architectural/historical surveys of over 20 Redevelopment Areas (including all of Downtown Los Angeles).

City of Los Angeles, Engineering Department (1980-1983)

Principal Investigator and sole CRM consultant to the Engineering Department, City of Los Angeles. Directed architectural/historical surveys of over 15 Los Angeles neighborhoods. Trained numerous volunteers, and worked directly with City of Los Angeles staff.

Greenwood and Associates (1980-1988)

Large projects include a survey of *Edwards Air Force Base* in 1980. This involved historical research, an aerial survey, and the subsequent location of a percentage of the sites identified on the ground. In this manner Mr. Hatheway personally identified 130+ previously unknown historic archaeological sites under the direction of Greenwood and Associates Principal Investigators for archaeology. Sites included homesteads, historic trails, roadways, an historic townsite, an abandoned railway alignment, and many military associated activity areas.

Houston Transit Consultants (1981-1983)

Surveys conducted in Houston, Texas were conducted under the authority of the *Texas State Historical Commission*, and under the direction of *Urban Mass Transit Association* officials. Approximately 200 miles of transportation corridor were surveyed in accordance with all appropriate Section 106/4(f) guidelines. Mr. Hatheway served as the Principal Investigator for this project, and directed all cultural resource related studies (field and archival) including history, architecture, and archaeology.

Chambers Consultants and Planners (1980-1981)

As Principal Investigator for history and architecture Mr. Hatheway worked on several projects for Chambers Consultants and Planners during the early 1980s, including a survey of the entire *San Clemente Island Naval Air Station* facility. This involved historical research, an aerial survey, and the subsequent location of a percentage of the sites thereby identified on the ground. He personally identified 20+ previously unknown historic archaeological sites under the direction of Chambers Principal Investigators for archaeology. In addition, Mr. Hatheway relocated and remapped 10+ coastal archaeological sites that had been "lost" due to original surveyor mapping errors.

ADDITIONAL SIGNIFICANT ACCOMPLISHMENTS

Author (Books)

Mr. Hatheway is the author of two popular local histories including *Lake Arrowhead*, a Postcard History Series publication by Arcadia, and *Rim of the World Drive*, an Arcadia Images of America publication.

Teaching Experience at UCLA

Mr. Hatheway taught a class from 1981 to 1993 at U.C.L.A. Extension entitled *Introduction to Historic Preservation*. This was the first such class ever taught in Southern California, and it continues to be taught today in a modified format. The fully accredited class introduced both undergraduate and graduate students from throughout southern California to the research skills necessary to complete both California State architectural inventory forms, and National Register applications.

Weekly Newspaper Column

From 1993 to 2003 Mr. Hatheway wrote a weekly column focusing on history for the *Mountain News* and the *Crestline Courier News*, both San Bernardino Mountain newspapers, with a combined circulation of over 11,000 subscribers.

Civic Involvement - MAC Member

Mr. Hatheway served as a Municipal Advisory Council member for the Crest Forest Area from 1995 until 2004. As a council member, Mr. Hatheway served in an advisory capacity on planning, environmental and quality of life issues for the greater Crestline area as an appointee of two consecutive County Supervisors.

Rim of the World Historical Society President/Board Member

Mr. Hatheway served as a board member of the Rim of the World Historical Society from 1995 until 2005. He held the office of president of the Society from 1997 through 1999, and he also acted as co-president for the years 2000 and 2001. In 2004, Mr. Hatheway was the recipient of the Society's prestigious "Wagon Wheel" award for his outstanding support and generosity.

PROFESSIONAL REFERENCES

References are available upon request.

CALICO SOLAR POWER PROJECT

DPW CONCERNS REGARDING:

Supplemental Staff Assessment, Part II

September 13, 2010

Prepared by:

Roger G. Hatheway

Principal Investigator

Cultural Resources Specialist DPW

Specific County of San Bernardino concerns regarding Department of Public Works (DPW) maintained National Trails Highway (NTH) Route 66 bridges referenced in the August 2010 *Calico Solar Power Project, Supplemental Staff Assessment (SSA), Part II*, cultural resources report findings are:

SSA, Cultural Resources, Page C-2-105: Reference to NTH timber trestle bridges being documented as having “sufficient historical integrity to be considered contributing elements” to the NRHP eligible highway. DPW staff contends that this statement appears to be in error. Specifically, all of the NTH timber trestle bridges currently maintained by the DPW have been substantially altered (See Following Section entitled: *National Old Trails Road/Route 66 Timber Trestle Bridges Built and Altered*).

SSA, Cultural Resources, Page C-2-106: DPW does not contest here that NTH/Route 66 may be eligible to the National Register of Historic Places (NRHP). However, DPW staff suggest that consideration be given to the possibility that while the alignment may be eligible to the NRHP, that the individual timber trestle bridges associated with the NTH/Route 66 alignment are NOT individually eligible to the NRHP.

SSA, Cultural Resources, Page C-2-107: This section of the report refers to NTH bridges as “character defining features,” further noting that the bridges (within the Calico Solar project APE) “were constructed from 1939 to 1952,” and concluding that the “bridges retain features that indicate they are likely an original feature of Route 66, including the concrete decking, and are in a good state of preservation.”

DPW staff contends that these statements contain errors including:

- 1.) Nearly all currently maintained NTH timber trestle bridges were built between 1929-1931, and not as stated from 1939-1952.
- 2.) The concrete decking is not an original feature as stated in the SSA report. It is, in fact, an alteration carried out by the Division of Highways during the period primarily extending from 1944 to the mid-1950s.
- 3.) The bridges are not in a good state of preservation. Overall, they lack historic integrity and are in a relative poor state of preservation (See Following Section entitled: *National Old Trails Road/Route 66 Timber Trestle Bridges Built and Altered*).
- 4.) Finally, the majority of NTH bridges are in poor condition per official Caltrans bridge inspection reports.

In summary, it would appear that there are errors and/or omissions in the August 2010 Calico Solar Power Project, Supplemental Staff Assessment, Part II, cultural resources report findings. These errors have the potential to impact current and proposed DPW plans to replace the existing timber trestle bridges.

Specifically, all NTH timber trestle bridges are currently listed as Category 4 bridges. This means:

CALTRANS HISTORIC BRIDGE INVENTORY

The original statewide historic bridge inventory was completed in 1986. An update of the inventory was completed in 2006, and the National Register status of many bridges was changed at that time. The update evaluated most of the state highway and local roadway bridges constructed prior to 1960. Bridges constructed in 1960 and later may need to be evaluated as they reach fifty years of age.

Each bridge has been given a National Register status designation as follows:

- 1 – Listed on the National Register of Historic Places.
- 2 – Eligible for National Register listing.
- 3 – May be eligible for National Register listing.
- 4 – Unevaluated. (Generally, Category 4 bridges constructed before 1960 are associated with properties that have not yet been evaluated, such as railroads, canals, or potentially eligible historic roads.)
- 5 – Ineligible for National Register listing.

The *Calico Solar Power SSA* cultural report appears to have the potential to raise the significance of all of NTH timber trestle bridges from a Category 4 to a Category 3 or even a Category 2. The elevating of NTH timber trestle bridges to any higher category may trigger problems for existing and future DPW bridge replacement programs. At the very least, the above concerns need to be addressed in a timely and professional manner.

NOTE: The following brief historical summary underscores in text and photographs the errors and omissions in the August 2010 *Calico Solar Power Project, Supplemental Staff Assessment, Part II*, cultural resources report findings.

National Old Trails Road/Route 66 Timber Trestle Bridges Built and Altered

DPW Currently maintains approximately 130 timber trestle bridges, built during the period of time primarily extending from 1929-1931, and extending from Daggett to Topock along the National Old Trails Road/Route 66 transportation corridor. The bridges vary slightly in design, but all of the National Old Trails Road/Historic 66 bridges were originally designed in general accordance with guidelines set forth in the “*Standard Specifications for Highway Bridges and Incidental Structures of the American Association of State Highway Officials*, issue of December 1, 1926.”

A typical DPW maintained timber trestle bridge is described as a simply-built wood structure. Design features common to these bridges include rectangular shape openings (bents), dark brown color (creosote soaked wood), white guardrail posts, metal beam guardrails, and triangular wing walls and earth slopes or dikes upstream and downstream.

All Route 66/National Old Trails Road timber trestle bridges were substantially reconstructed during the period extending from the mid-1940s to the mid-1950s including re-decking and widening. Heavy truck traffic and the damage caused by heavy World War II military convoys required the immediate attention of State of California design engineers if highways across the state were to accommodate massive anticipated automobile traffic in the years following the end of the war. Itza Ditch was altered in 1944, as

the first known reconstructed National Old Trails Road/Route 66 timber trestle bridge. Planned post-war bridge alterations were substantial from a technical standpoint, and they are described in some detail in several *California Highways and Public Works* magazine articles from 1944-1949. A 1949 article, entitled "Desert Bridges: Their Reconstruction Presents Various Problems to Engineers," is written by F. M. Morrill, Associate Bridge Engineer. It reads, in part:

In some of the more arid sections of California, the State has a large number of timber bridges which are reaching the end of their economical service life. Although located in sparsely inhabited areas, they are for the most part on roads that carry a large volume of traffic, including heavy interstate freight trucks and busses. Thus their reconstruction is a matter of real urgency and the great number of structures involved makes the problem one of major proportions.

Reconstruction Method

The typical desert bridge being reconstructed consists of 19-foot spans on timber pile bents. The deck system is timber stringers with laminated timber floor and asphalt surfacing of varying thicknesses. Under the method of reconstruction which has been adopted, the surfacing is first removed and the deck exposed, defective stringers and caps are replaced and laminated floors are tightened and respiked. The bituminous surfacing is replaced with a concrete slab and the old timber rail is replaced with steel rail or a new timber rail so constructed as to increase the roadway width to 26 feet between curbs.

In summary, the reconstruction of all of the Route 66/National Old Trails Road timber trestle bridges during the period extending from 1944 to the mid-1950s resulted in substantial alterations to the original architectural and technical (structural) integrity of each of the bridges. Alterations made to the majority of NTH timber trestle bridges include the widening of each bridge approximately three feet to a width of about 26 feet between curbs, the addition of concrete decking and curbs, removal of original guardrail and replacement with a new steel or new timber railing, and addition of metal approach guardrails. The following photographs illustrate the manner by which various physical alterations made to all Route 66 bridges have compromised the collective visual and historical integrity of the bridges.

NOTE: See Below Photographs #1 and #2

PHOTOGRAPH #1



Typical Existing Above Grade View of NTH/Route 66 Bridge

Note: The visual prominence of the original wood railings/guardrails and the wood curbs with scuppers. The original bridges clearly read as wood timber trestle structures, as opposed to the current condition of the vast majority of existing bridges.

PHOTOGRAPH #2



Typical Existing Above Grade View of NTH/Route 66 Bridge

Note: How the original wood railings have been removed, the original wood posts reduced in height, and how the wood curbs with scuppers have been modified. In effect, this bridge no longer reads clearly as an historic timber trestle structure. Rather, it reads as a highly modified bridge lacking historic integrity.

DECLARATION OF BRENDON BIGGS

I, Brendon Biggs, declare as follows:

1. I am currently the Chief of Transportation Planning for the Department of Public Works for the County of San Bernardino.
2. A copy of my professional qualifications and experience is attached hereto and incorporated herein by this reference.
3. The portion of the attached document relating to bridge cost estimates addressed to the Calico Solar Power Project and titled "NTH Bridge Replacement Mitigation Plan Outline" was either prepared by me or under my direction for San Bernardino County for, among other things, use as evidence in California Energy Commission siting case for the Calico Solar Power Project planned for construction in San Bernardino County. The bridge cost information in this document and the conclusions reached are based upon data from reliable sources, my independent analysis, and my professional experience and knowledge.
4. It is my professional opinion that the prepared testimony is valid and accurate with respect to the issue(s) addressed therein.
5. I am personally familiar with the facts and conclusions related in the testimony and if called as a witness could testify competently thereto.

I declare under the penalty of perjury under the laws of the State of California that the foregoing is true and correct to the best of my knowledge and belief.

Dated: September 16, 2010

Signed: _____



Brendon Biggs

At: San Bernardino, California

BRENDON P. BIGGS
PUBLIC WORKS ENGINEER 4

Department of Public Works
County of San Bernardino
825 E. Third Street
San Bernardino, CA 92415-0835

EDUCATION

MS. Civil Engineering ,1998

BS Mechanical Engineering Technology, Minor in Business Administration, 1987

Registered California PE 57127

Graduate of County Management Leadership Academy, 2000

Numerous technical courses and seminars in transportation and flood control related topics

QUALIFICATIONS

Mr. Biggs has worked for the County of San Bernardino, Department of Public Works (DPW) since 1991.

Mr. Biggs has a broad background in planning/budgeting, transportation and flood design, and maintenance operations. In his current position as Chief of Transportation Planning he oversees engineers and transportation analysts who develop engineering cost estimates and studies for new projects and develops the Capital Improvement Program.

From 1998 to 2005 he was a project engineer in transportation design division and was responsible for supervising design engineers and technicians and developing engineering cost estimates and bid documents including several bridge projects, traffic signals, road widening, rehabilitations, flood channels , retaining walls and other transportation related projects.

Mr. Biggs was Project Engineer on Sycamore Bridge at Lytle Creek that won the Project of the Year award by the American Society of Civil Engineers (ASCE) and the American Public Works Association (APWA). An article on the Sycamore Bridge written by Mr. Biggs and the resident engineer was published in Bridge Builder magazine in January 2004.

BACKGROUND

August 2005 to present - Chief of Transportation Planning Division

- Responsible for preparation and evaluation of long range planning studies and cost estimates for transportation infrastructure.
- Responsible for project planning and budget coordination for the Department of Public Works - Transportation functions
- Coordinate with many federal, state, regional and local agencies to meet the many procedural steps and timeframes required by law for project funding, and submit state and federal grant applications.
- Responsible for answering to the public on Department inquiries, represent the Department and present information to the community in a variety of public meetings, preparing written responses for board member signature and answering reporter's questions via phone or during public meetings.
- Manage a staff consisting of budget officer, staff analysts, engineers, clerical support, and technicians. Administer and manage project priorities, schedules, staff work load and personnel matters including supervision, work assignments, work performance evaluations, personnel action requests, hiring, and promotion.

June 1999 to August 2005 - Project Engineer Transportation Design Division (Public Work Engineer 3)

- Supervised 3 design engineers and 2 CAD technicians.
- Prepared board items for environmental and design plan approvals.
- Coordinated with outside agencies and internal divisions from planning to construction completion.
- Projects completed under his direction include traffic signals, road widening, rehabilitations, flood channels, bridges.
- Project Engineer on Sycamore Bridge at Lytle Creek that won the Project of the Year award by the American Society of Civil Engineers (ASCE) and the American Public Works Association (APWA). An article on the Sycamore Bridge written by Mr. Biggs and the resident engineer was published in Bridge Builder magazine in January 2004.

February 1998 to June 1999 - Operations Permit Engineer (Public Work Engineer 3)

- Supervised 1 Engineer II, 3 road inspectors, 1 permit technician, and 1 clerk.
- Section was responsible for inspection of land development construction, utility permit inspection
- Coordinated with maintenance yards, outside agencies and cities, responding to complaints,
- Processing FEMA disaster claims.

April 1991 to February 1998 - Public Work Engineer 2 in flood control design/federal projects division and Development Coordination Division.

- Duties included support of resident engineer during construction of San Timoteo construction project, some action items relating to Seven Oaks Dam
- Designed small drainage facility,
- Maintained bank account for Seven Oaks dam and San Timoteo channel projects.
- Prepared developer fee plans and cost estimates for desert areas.

- Worked with transportation traffic modeling software.

1987 – 1991 General Dynamics – Manufacturing Engineer. Work in writing new business proposal sections, work between design and manufacturing to make sure design could be build at low cost.

NTH BRIDGE REPLACEMENT MITIGATION PLAN OUTLINE

It is the intention of the County of San Bernardino DPW to establish an environmentally sound *National Trails Highway (NTH) Bridge Replacement Program* utilizing a new timber trestle bridge “template” for replacing all failing 1929-1931 timber trestle bridges along the NTH/Route 66 transportation corridor between Daggett and the I-40 Mountain Springs Road Exit. This program is being developed in recognition of the historical significance of this portion of the NTH/Route 66 transportation corridor.

The proposed *(NTH) Bridge Replacement Program* shall, over an extended period of time, depending on the availability of bridge replacement funds and/or need as determined by the failure of individual bridges, consist of the demolition of existing and structurally unsound 1929-1931 timber trestle bridges, and the installation of new, engineered, AASHTO approved, pre-fabricated “kit” bridges of similar “historic” appearance and size.

The proposed *(NTH) Bridge Replacement Program* timber trestle “kit” bridge template has yet to be approved by various interested agencies and entities, including the California State Historic Preservation Officer (SHPO). However, it is believed that a proposed DPW NTH bridge project currently under development, the *Daggett Ditch Bridge NTH Pilot Bridge Replacement Project*, could well serve as a means of demonstrating the “template” as a creative, key and vital step leading to the long-term preservation of the Route 66 corridor in California.

Various alternatives have been evaluated and these shall ultimately be presented in a DPW report entitled: *Historic Structures Report: NRHP Eligibility Statement & Alternatives and Impacts Analysis for the Daggett Ditch Bridge National Trails Highway (NTH) Pilot Bridge Replacement Project* (See Attachment).

Visual impacts are frequently very difficult to mitigate. Use of the proposed “template” appears to offer the opportunity to result in a genuinely beneficial impact to the visual landscape and historical context associated with the historical NTH/Route 66 alignment between Daggett and the I-40 Mountain Springs Road Exit. Specifically, it is contended by DPW staff that adverse visual impacts to the NTH/Route 66 corridor in the vicinity of the proposed Calico Solar Power Project, as identified in the August 2010 *Calico Solar Power Project, Supplemental Staff Assessment (SSA), Part II*, cultural resources report, can be mitigated, in part, by funding future implementation of the proposed *(NTH) Bridge Replacement Program* timber trestle “kit” bridge template as the visual landscape shall be improved by use of the proposed template (See Attachment Regarding Daggett Ditch).

Finally, mitigation costs associated with future NTH bridge replacement projects in the vicinity of the proposed Calico Solar project are estimated as costing 2.1 million dollars based on the number of bridges and mileage of the NTH/Route 66 corridor considered as impacted by the proposed project, and as detailed in the August 2010 *Calico Solar Power Project, Supplemental Staff Assessment (SSA), Part II*, cultural resources report.

SUMMARY TEXT

The following alternatives are being considered in the existing **DRAFT *Historic Structures Report: NRHP Eligibility Statement & Alternatives and Impacts Analysis for the Daggett Ditch Bridge National Trails Highway (NTH) Pilot Bridge Replacement Project.***

ALTERNATIVE #1: New, Engineered, AASHTO Approved Pre-Fabricated Timber Trestle Bridge Kit

ALTERNATIVE #2: No Project/No Change

ALTERNATIVE #3: Repair Existing

ALTERNATIVE #4: In-Kind Replacement of Existing Bridge

ALTERNATIVE #5: Cast-in-Place Concrete Slab Bridge Utilizing 1948 Concrete Bridge Design

ALTERNATIVE #6: Concrete Culvert Bridge

ALTERNATIVE #7: Precast Concrete I-Girder Bridge

Several of the *Daggett Ditch Bridge NTH Pilot Bridge Replacement Project* Proposed Alternatives are taken from a 2008 consultant report prepared at the request of the Department of Public Works entitled:

Willdan Engineering

2008 *Bridge Design Alternatives and Bridge Design Guidelines, for Bridges along National Trails Highway (formerly Route 66), Prepared for the County of San Bernardino, Department of Public Works, Prepared by Willdan Engineering, October 2008.*

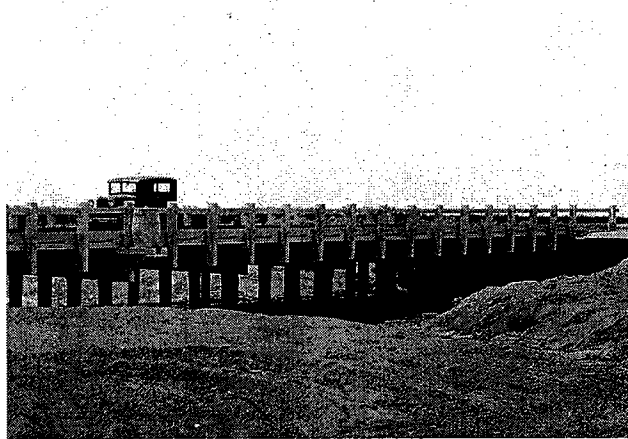
ALTERNATIVE #1: Replacement of Daggett Ditch Bridge Utilizing New, Engineered, AASHTO Approved Pre-Fabricated Timber Trestle Bridge Kit

Description

The proposed Preferred Alternative *Daggett Ditch Bridge NTH Pilot Bridge Replacement Project* consists of the demolition of the existing and structurally unsound 1929 timber trestle bridge, and the installation of a new, engineered, AASHTO approved, and pre-fabricated timber trestle bridge of a similar “historic” appearance and size.

As opposed to all other alternatives considered, this alternative provides for the use of wooden guardrails and curbs similar in appearance to the 1929-1931 originals. None of the other technically and structurally viable alternatives provide this opportunity.

FIGURE #1



Overall Elevation Original 1929-1931 Timber Trestle Design

FIGURE #2



Overall Elevation New FHWA/AASHTO Approved Timber Trestle Bridge in Wisconsin

Feasibility

This type of AASHTO approved bridge design has been previously approved for use by the FHWA in Wisconsin. The design does, therefore, appear as highly feasible from a technical and funding standpoint.

Project Objectives and Goals

This alternative would appear to meet all of the goals for the replacement of NTH bridges as previously established in the 2008 Willdan report entitled *Bridge Design Alternatives and Bridge Design Guidelines, for Bridges along National Trails Highway (formerly Route 66)*. Specifically:

Goal #1: Public Safety (AASHTO Compliance, Structural Design Adequacy)

This alternative is AASHTO approved and, according to contractor supplied specifications and plans, this alternative appears to meet all of the requirements necessary to satisfy this project goal.

Goal #2: Cost Effectiveness (Construction and Maintenance)

This alternative appears as a cost-effective replacement solution in comparison to other feasible alternatives.

Goal #3: Minimize Disturbance to Biological Resources

This alternative may be erected within a very brief period of time, and the construction of a detour road is not required at this location. This alternative does, therefore, appear to minimize potential impacts to biological resources.

Goal #4: Minimize Disturbance to Historic Resources

The proposed Preferred Alternative is best viewed as a form of “visual” mitigation in and of itself. Specifically, this alternative is a timber trestle bridge similar in appearance to the original 1929-1931 timber trestle bridges constructed between Barstow and Topock along the length of the Route 66 transportation corridor. As opposed to all other alternatives considered, this alternative provides for the use of wooden guardrails and curbs similar in appear to the 1929-1931 originals. None of the other technically and structurally viable alternatives provide this opportunity.

Historic Resource Impacts Summary

This alternative should result in gross beneficial impact to the visual landscape and historical context associated with the NTH/Route 66 alignment between Daggett and the I-40 Mountain Springs Road Exit.

DECLARATION OF SERVICE

I, **Renee Meyer**, declare that on **September 17, 2010**, I served and filed copies of the attached, **TESTIMONY OF INTERVENOR COUNTY OF SAN BERNARDINO ON MITIGATION FOR IMPACTS TO VISUAL RESOURCES**. The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at: [<http://www.energy.ca.gov/sitingcases/calicosolar/index.html>].

The document has been sent to both the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(Check all that Apply)

FOR SERVICE TO ALL OTHER PARTIES:

- sent electronically to all email addresses on the Proof of Service list;
- by personal delivery;
- by delivering on this date, for mailing with the United States Postal Service with first-class postage thereon fully prepaid, to the name and address of the person served, for mailing that same day in the ordinary course of business; that the envelope was sealed and placed for collection and mailing on that date to those addresses **NOT** marked "email preferred."

AND

FOR FILING WITH THE ENERGY COMMISSION:

- sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (*preferred method*);

OR

- depositing in the mail an original and 12 paper copies, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 08-AFC-13
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512
docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct, that I am employed in the county where this mailing occurred, and that I am over the age of 18 years and not a party to the proceeding.



Renee Meyer



**BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT
COMMISSION OF THE STATE OF CALIFORNIA
1516 NINTH STREET, SACRAMENTO, CA 95814
1-800-822-6228 – WWW.ENERGY.CA.GOV**

APPLICATION FOR CERTIFICATION

For the CALICO SOLAR (Formerly SES Solar One)

Docket No. 08-AFC-13

**PROOF OF SERVICE
(Revised 8/9/10)**

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