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(STMPO-500)

SOUTHERN CALIFORNIA EDISON COMPANY  
Rosemead, California

SHORT-FORM  
SPECIFICATION 40-0202


CONSTRUCTION OF SITE FENCING  
AND GATES  
SOLAR ONE GENERATING STATION

December 5, 1979

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Approved for Issue:

  
\_\_\_\_\_  
A. Del Grosso  
Construction Superintendent

Date \_\_\_\_\_

## GENERAL TERMS AND CONDITIONS

The parties agree to enter into a contract for Contractor to provide and for Edison to purchase the services specified in the Purchase Order of which these General Terms and Conditions are a part.

### 1. DEFINITIONS:

**1.1 Apparatus:** Edison's equipment on which the Work is to be performed by Contractor plus any parts furnished by Edison to Contractor for use in performing work.

**1.2 Change Order:** Document issued by Edison to Contractor to change the Purchase Order.

**1.3 Contractor:** The entity to which the Purchase Order is addressed and which performs the Work.

**1.4 Edison:** Southern California Edison Company.

**1.5 Edison Representative:** An Edison employee designated by Edison to coordinate, expedite, inspect and approve the Work.

**1.6 Jobsite:** Edison's property or public or private property for performance of the Work at Edison's direction.

**1.7 Material:** All equipment, materials, products, and supplies to be provided by Contractor as set forth in the Purchase Order.

**1.8 Purchase Order:** Document issued by Edison to Contractor which authorizes the Work and incorporates by reference this set of General Terms and Conditions and other specifically referenced documents, with the following priority in the event of conflicting provisions: Latest Change Order, Purchase Order, these General Terms and Conditions, other referenced documents.

**1.9 Subcontractor:** Either: An entity contracting directly with Contractor to furnish any part of the Work, or an entity contracting with Contractor's subcontractors of any tier to furnish any part of the Work.

**1.10 Work:** All obligations of Contractor to be performed as specified in the Purchase Order, including Material and documentation.

**2. SCHEDULE:** Completion of the Work by the work completion date and furnishing of the documentation is essential to maintain the operating schedule for Edison facilities. If performance of the Work falls behind the schedule agreed to by the parties due to the fault of Contractor, Contractor shall accelerate its performance of the Work, at no charge in the price, until performance of the Work is commensurate with such schedule.

**3. LABOR:** Contractor shall comply with all existing Jobsite Work rules in performance of the Work at the Jobsite. Upon request, Contractor shall submit a copy of its labor agreements to Edison for review.

Contractor shall give to Edison prompt written notice of (i) every demand for collective bargaining (under the provisions of the Labor-Management Relations Act (LMRA) as amended) made upon Contractor or any Subcontractor by any labor organization as soon as such demand may come to Contractor's attention, and (ii) any labor dispute or anticipated labor dispute, which may reasonably be expected to affect the performance or the schedule of the Work.

If Contractor's employees, or any union representing such employees, breach the labor agreement between Contractor and such union, Contractor shall exercise all remedies to which it is entitled under State and Federal law. Further, if Contractor's employees or such union engage in jurisdictional disputes that affect the performance of the Work, or the work completion date, or Edison contractors, Contractor shall institute appropriate actions as required by the labor agreement between Contractor and such union and shall exercise all remedies to which it is entitled under Federal and state law. Nothing in this Section 3 shall limit or abridge Contractor's right to negotiate or execute such labor agreements on terms and conditions within Contractor's sole discretion. Edison reserves the right to provide Contractor with prefabricated equipment and neither Contractor nor Subcontractors shall disassemble or rework such prefabricated equipment unless so directed by a Change Order.

**4. PERMITS, STATUTES AND CODES:** The Work shall comply with the applicable requirements of all statutes, acts, ordinances, regulations, codes and standards as of the date of the Purchase Order. Edison shall obtain and pay for any required building or grading permit, or encroachment permit for a state highway. Contractor shall arrange and pay for any permit or inspection which may be required for performance of the Work.

### 5. PAYMENT:

**5.1 Invoices:** Contractor shall submit invoices as set forth in the Purchase Order and in sufficient detail to permit Edison to evaluate the reasonableness of all charges applicable to the Work.

**5.2 Claims:** For any claims against Edison for extra Work, changes, or delays, notice of a claim shall be submitted to Edison within ten calendar days after completion of the related Work.

**5.3 Time and Material Charges:** For time and material Purchase Orders, the following shall apply:

**5.3.1 Labor:** The labor portion of the Work shall be paid at the hourly rates set forth in Purchase Order. Such rates shall include all related costs, including but not limited to, bare payroll costs, payroll additions, overhead costs, profit, small tools and personal supplies.

**5.3.2 Material:** All Material costs shall be paid by Edison as invoiced by the supplier to Contractor (including freight charges and applicable taxes) plus a percentage of such costs for all applicable handling costs as specified in the Purchase Order. No profit shall be allowed for Material costs.

**5.3.3 Invoices:** Contractor shall submit invoices monthly which include an itemization of (i) the labor hours by craft, the applicable rate, and the total dollar amount, (ii) the Material costs as invoiced to Contractor, plus applicable handling costs, and (iii) the total dollar amount. A copy of the supplier's invoice for Material shall be included. Edison reserves the right to audit all labor hours and Material invoices related to the Purchase Order.

**6. CHANGES:** Contractor shall perform additions, deletions, or changes to the Work as orally directed by the Edison Representative, or by a Change Order, at the applicable prices, rates, or reimbursible costs set forth in the Purchase Order. Contractor shall promptly notify Edison in writing if the work completion date, expenditure limitation, or prices are affected by such changes and an equitable adjustment of such provisions shall be authorized by a Change Order. Changes to the terms and conditions shall be made by mutual agreement and set forth in a Change Order.

**7. SUSPENSION:** The Edison Representative may orally direct Contractor to suspend performance of all or of any part of the Work at any time, and to resume performance of the Work. An equitable adjustment in the work completion date and price shall be confirmed by a Change Order if such suspension increases the cost of the Work.

**8. TERMINATION:** Edison may orally direct Contractor to terminate the Work at any time, which termination shall be confirmed by a Change Order. Any charges resulting from such termination shall be equitably negotiated by the parties. Edison, at its option, may take possession of any Material procured to date of termination if such costs have been paid or are included in the termination charges. The provisions of this Section 8 shall be Contractor's sole remedy resulting from such termination.

**9. TITLE AND RISK-OF-LOSS:** Title and risk of loss or damage to the Work shall pass from Contractor to Edison upon acceptance of the Work by Edison.

Contractor shall have risk of loss or damage to the Material, Edison-furnished components and Apparatus during the time that Contractor has custody of such items.

Title of the Work shall be free and clear of any and all liens and encumbrances whatsoever. If a lien of any nature is filed against the Work or Jobsite by any entity which has supplied Material or services at the request of Contractor or a Subcontractor, Contractor shall promptly, at its own expense, take any and all action necessary to cause any such lien to be released or discharged immediately. Edison shall, at all times, retain title to Edison-furnished components.

**10. INSURANCE:** With respect to liabilities arising out of performance of the Work at the Jobsite, Contractor shall maintain, and shall require that each Subcontractor maintain, insurance as described below. Such insurance shall not be terminated nor expire except on thirty days prior written notice to Edison. Contractor shall, and shall require its Subcontractors to, furnish certificates of insurance to Edison prior to performance of the Work.

(i) Workers' Compensation Insurance with statutory limits, as required by the state in which the Work is performed, and Employer's Liability Insurance with limits of not less than \$500,000. Contractor shall require that its carriers furnishing such insurance shall waive all rights of subrogation against Edison, its officers, agents, employees and other contractors and subcontractors.

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Workers' Compensation Insurance shall include Longshoremen's and Harbor Workers' Act coverage, Jones Act coverage, and Outer Continental Shelf coverage, as applicable.

With respect to all Work performed in the State of Nevada, Contractor shall maintain Workers' Compensation Insurance with the Nevada Industrial Commission.

(ii) Comprehensive Bodily Injury And Property Damage Liability Insurance, including owner's and contractor's protective, product/completed operations, contractual and automobile liability, with a combined single limit of not less than \$500,000 for each occurrence. Such insurance shall (a) name Edison, its officers, agents, and employees as additional insureds, but only for Contractor's acts and omissions, (b) be primary for all purposes, and (c) contain standard cross-liability provisions. Any deductible from payments for claims shall be at Contractor's expense.

Contractor shall report immediately to the Edison Representative, and confirm in writing, any losses or damages incurred by Contractor or any of its Subcontractors, or its receipt or notice of any claim by a third party, or of any occurrence that might reasonably be expected to give rise to such claim in connection with or arising out of the Work.

If Contractor fails to comply with all of the insurance provisions of this Section 10, or causes such insurance to become uncollectible, Contractor shall indemnify and hold harmless Edison, and its officers, agents, employees, assigns and successors in interest from and against any and all liability, damages, losses, costs including attorney's fees and expenses, or any of them, resulting from the death or injury to any person or damage to any property, including property of Edison, to the extent caused by Contractor's non-compliance with this Section 10 or caused by the uncollectibility of such insurance.

**11. CONSEQUENTIAL DAMAGES:** Except as otherwise provided herein, Contractor shall not be liable to Edison for any consequential damages including, but not limited to, loss of or under-utilization of Edison facilities, loss of revenue, and claims of any customer of Edison, resulting from Contractor's performance or nonperformance of its obligations under the Purchase Order.

Edison shall not be liable to Contractor for any consequential damages including, but not limited to, loss of anticipated profits and loss of use of or under-utilization of Contractor's labor or facilities, resulting from Edison's performance or nonperformance of its obligations under the Purchase Order.

**12. INDEMNITY:** Contractor shall, at its own cost, defend, indemnify and hold harmless Edison, its officers, agents, employees, assigns, and successors in interest, from and against any and all liability, damages, losses, claims, demands, actions, causes of action, costs including attorney's fees and expenses, or any of them, resulting from the death or injury to any person or damage to any property, including property of Edison, to the extent caused by the negligence of Contractor, Contractor's agents, Contractor's employees, its Subcontractors or its Subcontractors' employees, or any of them, and arising out of the performance or nonperformance of its obligations under the Purchase Order.

Any tools, supplies, equipment or other items loaned from Edison to Contractor shall be done solely as a convenience to Contractor. Contractor agrees that such items are being loaned "as is," and Edison makes no representations as to the condition, suitability for use, freedom from defect or otherwise of such items. Contractor shall defend at its own cost and indemnify and hold harmless Edison, and its officers, agents, employees, assigns, and successors in interest, from and against any and all liability, damages, losses, claims, demands, actions, causes of action, costs including attorney's fees and expenses, or any of them, resulting from the death or injury to any person or damage to any property, arising out of any negligence or strict liability based on actual or alleged use, delivery or transportation of any and all loaned tools, supplies, equipment or other items having defects, or claimed to be defective.

**13. ACCEPTANCE:** Acceptance tests and inspections shall be performed by Edison within a reasonable period after Contractor has completed and released the Work to Edison. Edison may refuse to accept the Work, or any part thereof, not to be as specified in the Purchase Order. Contractor shall promptly correct such Work as approved by Edison.

**14. WARRANTY:** With the exception of non destructive examination and technical direction services, Contractor warrants that the Work shall be free from defects in workmanship, materials, and design unless of Edison's design, and shall conform to the requirements of the Purchase Order. Contractor shall, at its sole expense and promptly after notification and within one year after acceptance of the Work, correct or replace such defective Work as approved by Edison. Any transportation charges shall be at

Contractor's expense. Edison shall have the right to use such defective Work until it can be removed from service for correction or replacement, however, any additional damage resulting from such continued use shall be at Edison's expense. The warranty period for such corrected or replaced Work shall be one year starting upon acceptance of such Work.

For non-destructive examination or technical services Work, Contractor warrants that such services shall reflect Contractor's best professional knowledge, judgment and accepted industry practice. Contractor shall, at its sole expense and promptly after notification by Edison within one year after completion of such services, correctly reperform any nonconforming services.

**15. UNCONTROLLABLE FORCES:** Contractor shall not be liable for delay in the work completion date or inability to perform the Work, due to any cause beyond its reasonable control, such as strike, flood, fire, lightning, war, sabotage, act of a public enemy, earthquake, or material availability, provided that Contractor promptly notifies Edison in writing of the nature, cause, date of commencement and expected impact of the event and has exercised due diligence in proceeding to meet the work completion date. Edison shall extend the work completion date for an equitable period due to such causes, or request Contractor to accelerate the Work as set forth in Section 6, Changes.

**16. NON-WAIVER:** The failure of Edison to enforce any of the terms and conditions or to exercise any right or privilege in the Purchase Order shall not be construed as thereafter waiving any such terms and conditions or right or privilege. A waiver by Edison shall be by a Change Order.

**17. GOVERNING LAW:** The Purchase Order shall be interpreted, construed and governed under the laws of the State of California as if executed and to be performed wholly within the State of California.

**18. ASSIGNMENT:** Neither the Purchase Order nor any interest under it shall be assigned without the prior written consent of Edison. The Purchase Order shall not be deemed an asset of Contractor. If Contractor enters into any voluntary or involuntary receivership, bankruptcy, or insolvency proceedings, the Purchase Order may be cancelled at Edison's option upon written notice to Contractor.

**19. SUBCONTRACTORS:** Contractor shall at all times be responsible for the acts and omissions of Subcontractors and persons directly or indirectly employed by them. Nothing in the Purchase Order shall constitute any contractual relationship between a Subcontractor and Edison or any obligation on the part of Edison to pay, or to be responsible for the payment of, any sums to any Subcontractor.

**20. NOTICES:** Any legal notice pertaining to the Purchase Order shall be in writing and sent registered or certified mail, postage prepaid, to Edison or to Contractor, as appropriate, at their respective addresses appearing in the Purchase Order.

**21. EMPLOYMENT PRACTICES:** The employment practices printed on the back of the Purchase Order form shall apply.

**22. CONTRACTOR'S LICENSE:** When applicable Contractor shall maintain a valid Contractor's License in the state in which the Work is performed.

**23. ENTIRE AGREEMENT:** The Purchase Order contains the entire understanding between Edison and Contractor as to the subject matter of the Purchase Order and merges and supersedes all prior agreements, commitments, representations and discussions between Edison and Contractor pertaining to the Purchase Order.

SUPPLEMENTAL GENERAL TERMS AND CONDITIONS

10. INSURANCE

The insurance provisions of Section 10, General Terms and Conditions of this Specification, are deleted in their entirety and replaced with the following:

10.1 Edison Provided Insurance

With respect to liabilities arising out of the performance of the Work at the Jobsite, Edison shall maintain, or cause to be maintained, for the benefit of Contractor and Subcontractors, excluding Subcontractors and suppliers making only deliveries or pickups, operators or renters of aircraft, and suppliers of manufacturers from whom only purchases are made, and consultants, the following types of insurance with limits as shown:

a. Workers' Compensation Insurance with statutory limits, including All States Endorsement, and Employer's Liability Insurance with limits of not less than \$2,000,000. Workers' Compensation Insurance shall include Longshoremen's and Harbor Workers' Act coverage, Jones Act coverage and Outer Continental Shelf coverage, as needed. Contractor and Subcontractors shall execute an assignment to Edison of all returned premiums, premium refunds, dividends, and other monies due or to become due to it or them in connection with such insurance.

Workers' Compensation Insurance policies will normally be furnished to the named insureds prior to the time that Work is performed at the Jobsite.

b. Comprehensive General Liability Insurance for each named insured issued in accordance with Edison's Master Insurance Program. The limits of insurance coverage for each insured shall be (i) primary insurance of \$1,000,000 for any one coverage, any combination of coverages, or all coverages combined, arising out of one occurrence, subject to a \$1,000,000 aggregate for each policy year, and (ii) excess coverage of \$9,000,000 combined single limit each occurrence, subject to a limit of \$9,000,000 annual aggregate excess of \$1,000,000 primary coverage and associated aggregate, subject further to a limit of \$45,000,000 each occurrence for all insureds under this excess coverage.

1) For any property damage claims made against Contractor or Subcontractor, a deductible for the account of Contractor or Subcontractor shall be \$2,500 each occurrence, as respects all loss or damage.

2) The completed operation hazard and products hazard insurance afforded hereunder for bodily injury and property damage liability shall continue in force for a period of two years after completion or acceptance of the Work, whichever is the last to occur.

3) Company shall add Contractor and Subcontractors as named insureds on such insurance, and such insurance policies shall be primary and non-contributing with any other insurance carried by the named insureds.

SUPPLEMENTAL GENERAL TERMS AND CONDITIONS

4) The insurer shall issue certificates of Comprehensive General Liability Insurance to the named insureds covering their liabilities, except as otherwise provided in the policy, arising out of injury, loss or damage suffered or incurred at or adjacent to the Jobsite, and injury, loss or damage occurring elsewhere resulting from operations, activities, incidents or occurrences at the Jobsite.

5) The inclusion of more than one insured under such insurance shall not operate to impair the rights of one insured against another insured.

c. In the event of contemplated reduction in coverage or cancellation of any insurance referred to in Sections a and b, Edison shall mail thirty days advance written notice of such contemplated reduction or cancellation to each named or additional insured at its or their address on file with Edison at the time of such notice. In the event of such contemplated reduction in coverage or cancellation, Edison shall use its best efforts to provide for the continuation of such insurance for Contractor and Subcontractors.

d. The named insureds shall not, by reason of its or their inclusion under the insurance referred to in Section 10.1 incur liability for payment of premium for such insurance.

e. Following execution of the Purchase Order, Contractor shall notify Edison of the execution of any subcontracts with, or issuance of any purchase orders to, Subcontractors by Contractor and upon such notice, the Subcontractors shall be notified by Edison of their inclusion in the insurance set forth in Section 10.1. Absent receipt of such notice, Company shall not have any obligation to provide the insurance set forth in Section 10.1 to Subcontractors.

f. Contractor shall require all Subcontractors to certify that they have excluded from their subcontract price the cost of insurance for Workers' Compensation Insurance and Comprehensive General Liability Insurance.

g. Contractor shall provide, and shall be responsible for requiring Subcontractors to provide, Edison with information necessary for administration of the insurance set forth in Section 10.1, and Edison shall handle all insurance matters relating to Subcontractors directly with such Subcontractors.

10.2 Contractor Provided Insurance

With regard to liabilities arising out of performance of the Work at the Jobsite, Contractor shall maintain and shall require each Subcontractor to maintain insurance as described below. Such insurance shall not be terminated nor expire except on thirty days prior written notice to Edison. Contractor shall, and shall require its Subcontractors to, furnish certificates of insurance to Edison prior to performance of the Work.

SUPPLEMENTAL GENERAL TERMS AND CONDITIONS

a. Automobile Bodily Injury and Property Damage Liability Insurance with a combined single limit of not less than \$500,000 for each occurrence. Such insurance shall cover liability arising out of the use by Contractor and Subcontractors of owned, non-owned and hired automobiles in the performance of the Work at the Jobsite. As used herein, the term "automobile" means vehicles licensed or required to be licensed under the California Vehicle Code. Edison shall be named as additional insured on such insurance. Such insurance shall be primary for all purposes and shall be so endorsed, and any deductible from payments or claims shall be at Contractor's sole expense.

b. Contractor shall report immediately to the Engineer, and confirm in writing, any losses or damages incurred by Contractor or any of its Subcontractors, or its receipt or notice of any claim by a third party, or of any occurrence that might reasonably be expected to give rise to such claim in connection with or arising out of the Work.

c. If Contractor fails to comply with all of the insurance provisions of this Section 10 or causes such insurance to become uncollectible, Contractor shall indemnify and hold harmless Edison, and its officers, agents, employees, assigns and successors in interest from and against any and all liability, damages, losses, costs including attorney's fees, and damages to property and personnel of Edison, or any of them, to the extent such liability, damages, costs and losses would not have been incurred by Edison if Contractor had complied with this Section 10 and had not caused such insurance to become uncollectible.

END SUPPLEMENTAL GENERAL TERMS AND CONDITIONS

## WORK DESCRIPTION

### 1. SCOPE OF WORK

Contractor shall furnish all Work and Material required to install approximately 9,100 ft. of chain link fence, gates, and all accessories as indicated on the drawings and specified herein. The Jobsite is the Solar One Generating Station located north of Highway 66 approximately 5 miles east of Daggett, County of San Bernardino, California.

### 2. WORK COMPLETION DATE

The Work shall be completed by February 28, 1980, or by the date specified in the Purchase Order.

### 3. AS-BUILT (RECORD) DRAWINGS

When instructed by the Engineer, one complete set of drawings shall be marked up to depict field changes. The complete set of "as-built" drawings shall be submitted to the Engineer within one week after acceptance of the Work.

### 4. CORRESPONDENCE

After award of the Purchase Order, all correspondence of a technical nature shall be directed to:

Mr. A. Del Grosso  
Const. Superintendent, Solar One Project  
Southern California Edison Company  
P. O. Box 800  
Rosemead, California 91770

### 5. UTILITIES

Contractor shall furnish all utilities and sanitary facilities required to complete the Work.

### 6. SUPERINTENDENCE

Contractor shall provide, and maintain continually at the Jobsite, adequate and competent superintendence of all required operations. The superintendents shall be experienced in each type of construction required by the specification; they shall be employees of Contractor, and approved by the Engineer. If, in the opinion of the Engineer, the safety, quality, or progress of the Work is being impaired by a shortage of Contractor's supervisory personnel, Contractor shall assign additional qualified personnel to the Work.

Throughout the Work period, Contractor shall have present at the Jobsite a representative who is empowered to speak and act for, and on behalf, of Contractor.

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Fencing and Gates  
Solar One

## WORK DESCRIPTION

### 7. QUALIFICATION OF EMPLOYEES

Contractor shall employ only competent and skilled employees to perform the Work.

### 8. CLEAN UP

Upon completion of the Work Contractor shall, at its own expense, satisfactorily dispose of rubbish, unused Material belonging to it or used in the performance of the Work, and shall leave the Jobsite in a neat, clean, and safe condition.

### 9. PROTECTION OF MATERIAL

Contractor shall be responsible for the care, custody, and protection of all its Material and equipment on the Jobsite.

### 10. PROTECTION OF SURVEY MARKERS

During progress of the Work, Contractor shall protect all survey markers, alignment hubs, and bench markers set by others. All markers damaged by Contractor shall be replaced by Contractor at no cost to Edison. Contractor shall be responsible for proper alignment, location, and settings of all posts.

### 11. WORK BY CONTRACTOR

The major items of Work to be performed by Contractor include, but are not limited to, furnishing and installing the following:

1. Approximately 9,100 ft. of 8 ft. high chain link fence with three strands of barbed wire, as indicated on the drawings.
2. Install 8 ft. high gates per Drawing No. 5133441-0.
3. Concrete footings.
4. Installation of warning signs furnished by Edison.

### 12. MATERIALS BY CONTRACTOR

Contractor shall provide all Material required for the Work.

### 13. CODES AND STANDARDS

The Work and Material shall comply with the following codes and standards, as amended to the date of this Specification, which are by reference incorporated herein and made a part of this Specification:

SPECIFICATION 40-0202  
Fencing and Gates  
Solar One



## WORK DESCRIPTION

### American Society for Testing and Materials (ASTM)

- ASTM B6 - Specification for Zinc Metal (Slab Zinc)
- ASTM A120 - Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Ordinary Uses.
- ASTM A153 - Specification for Zinc-Coating (Hot-Dip) on Iron and Steel Hardware
- ASTM A392 - Specification for Zinc-Coated Steel Chain-Link Fence Fabric

### American Iron and Steel Institute (AISI)

Steel Products Manual - Wire & Rods, Carbon Steel

#### 14. FENCING FABRIC

Fence fabric shall be in compliance with ASTM A392, No. 11 gauge bearing steel wire, 2 inch diamond mesh, top and bottom edges knuckled and heavily hot dip galvanized after fabrication. Coating on fabric shall be 1.2 oz/sq. ft. Fabric having "icicles" or sharp projections shall be rejected, even if erected. The base metal shall be high quality, medium carbon steel wire, hot dip galvanized to AISI Specification Type 1. Minimum breaking strength of galvanized wire shall be 850 pounds for No. 11 gauge.

#### 15. POSTS, RAILS, AND FITTINGS

Materials shall comply with Appendix A, Bill of Material.

#### 16. CONCRETE FOOTINGS

2,500 lb. psi minimum.

#### 17. SLIDING, ROLLING GATES

Gate frames for double-swing type gates shall be fabricated of 2-in. minimum, Schedule 40 galvanized steel pipe.

Frames shall be rigidly constructed and fabricated as indicated on the drawings. All joints shall be welded. Entire frame shall be galvanized after fabrication. Gate hinges shall be of the ball and socket type.

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Fencing and Gates  
Solar One

## WORK DESCRIPTION

Hardware shall include approved latches, bolts, and a hold-open device in accordance with the drawings.

### 18. GALVANIZING

All zinc used for galvanizing shall be in conformance with ASTM B6. All galvanizing shall be by the hot-dip process.

### 19. MISCELLANEOUS HARDWARE

All steel fittings such as nuts, bolts, and elbows, shall be galvanized in accordance with ASTM A153.

### 20. INSTALLATION OF FENCING

Space posts equally not to exceed 11 ft. between end, angle, corner and gate posts. Pass top rail through post caps, fasten at ends with rail end fittings and bends. Set plumb and in true alignment.

Fasten fabric to posts with ties not more than 16 in. on center. Hook steel wire ties at both ends. Wrap wire ties two turns around fabric at each end. Make one full turn around rail or tension wire, 18 in. on center, with tie wire. Tie ends two full twists and turn down.

Stretch fabric taut, fasten to end, corner, angle and gate posts with full height tension bars at 14 in. on center.

Install 45 degree angle arms and three strands of barbed wire at top edge of all perimeter fencing with No. 11 gauge wire per ANSI N18.17, per attached drawings.

### 21. INSTALLATION OF GATES

Gates shall be erected at the location shown. Tops of gates shall line up with adjacent fencing. Bottoms of gates, in closed position, shall clear the pavement by a maximum of two inches. Gates shall be adjusted to operate in an approved manner.

### 22. GALVANIZED COATING REPAIR

Damaged or defective galvanized coatings shall be repaired using Galvanox Type 1, manufactured by Subox, Inc., or Koppers Organic Zinc, manufactured by Koppers Company, Inc., Los Angeles, in accordance with the manufacturer's printed instructions.

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Fencing and Gates  
Solar One

WORK DESCRIPTION

23. SIGNS AND NAMEPLATES

Warning signs and the station nameplate shall be supplied by Edison. They shall be installed by Contractor on the fence and gate in accordance with the drawings.

24. DRAWING LIST

The following drawings are included as part of this Specification:

<u>Drawing No.</u>	<u>Title</u>
5133441-0	Fencing Plan
Information Documents	
ECS 71-3-02, Sht. S2, Rev. 2	Engineering Standard 8 ft. and 12 ft. high Chain Link Fence with Barbed Wire
ECS 71-03-02, Sht. S3, Rev. 1	Engineering Standard Gate and Latching Device Details
M-033618 Sheets 1-11	Bill of Material

25. ACCEPTANCE

Acceptance of the completed Work shall include all Work performed to the satisfaction of the Engineer.

SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 5.78 S C E CO

DESIGNER	
CHECKED	
APPROVED	
DATE	
REV.	
DESIGNER	
CHECKED	
APPROVED	
DATE	
REV.	

ITEM	QUANTITY	U N I T	REQ. OR L	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
1A						MATERIAL FOR 8 FT. CHAIN LINK FENCE W/THREE STRANDS OF BARBED WIRE CONSISTING OF THE FOLLOWING ITEMS  ECS 71-03-02 SHEETS S2 & S4 DETAIL NO.6 ASSEMBLY S-0609	
1B	9,100	FT	C			FENCE, CHAIN LINK, 8 FT. #11 GAGE WIRE, 2 IN X 2 IN, RIGHT HAND WEAVE 27-1/2 IN SQ, WITH BOTH ENDS BARBED GALV.	
1C	18,600	FT	C			MATERIAL CODE 597-27800, WIRE #7 GALV. STIFFENER, FOR TOP & BOTTOM TENSION WIRES.	
1D	9,300	EA	C			MATERIAL CODE 579-03106 ALUM. #4 TIE WIRE 4 INCH LONG	
1E	27,500	FT	C			MATERIAL CODE 131-78504, BARBED WIRE GALV. 12-1/2 GA.	
2A						LINE POST FOR 8FT. CHAIN LINK FENCE WITH BARBED WIRE EXTENSION ARMS. AS FOLLOWS-  ECS 71-03-02 SHT.S2 DETAIL NO.7 ASSEMBLY S-0610	
2C	800	EA	C			CONCRETE 0.04 C.Y.	
2D	8,800	FT	C	165	70806	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE                      OUTSIDE      WALL THICK- SIZE, IN.                  DIA., IN.          NESS, IN.  2                                  2.375                  0.154  * * LINE POST 10 FT. 6 INCH LONG	
2J	5,600	EA	C	131	48002	BAND, FABRIC, ALUMINUM, 2-1/2 IN OD	

<u>SOLAR ONE SITE</u>		<u>7361A</u>	ASSEMBLY
LOCATION NAME		JOB ORDER	<u>S-0609</u>
<u>SG01</u>	<u>PERIMETER SECURITY FENCE</u>		<u>S-0610</u>
JOB SECT. NO.	JOB SECTION		
<u>5133441</u>			

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION						BILL OF MATERIAL			
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.	
09-25-79	<i>CPW</i> CPW	<i>TKK</i> TKK	<i>Jme</i> GE	TK	1	2	M- 033618	0	

SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 5-78 SCE CO

DESIGNER	CHECKED	APPROVED	DATE	REV.
DESIGNER	CHECKED	APPROVED	DATE	REV.

ITEM	QUANTITY	UNIT	REG. OR L.	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
2T	800	EA	C131	43003		ARM, EXTENSION FOR MOUNTING BARBED WIRE, WITH 1/4 X 1-1/2 IN BOLTS AND NUTS	
2U	800	EA	C131	76003		TOP. EYE, FOR 2 IN. PIPE	
3A						CORNER POST FOR 8 FT CHAIN LINK FENCE WITH BARBED WIRE EXTENSION ARMS INCL. 2 BRACE POSTS, AS FOLLOWS-  ECS 71-03-02 SHT.S2 DETAIL NO.5 ASSEMBLY S-0612	
3C	117	FT	C165	70905		PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE SIZE, IN.      OUTSIDE DIA., IN.      WALL THICKNESS, IN. 2-1/2                      2.875                      0.203 * * CORNER POST 12 FT 6 IN. LONG	
3D	198	FT	C165	70806		PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE SIZE, IN.      OUTSIDE DIA., IN.      WALL THICKNESS, IN. 2                              2.375                      0.154 * * BRACE POST 10 FT 6 IN. LONG	

SOLAR ONE SITE		7361A	ASSEMBLY
LOCATION NAME		JOB ORDER	S-0612
SG01	PERIMETER SECURITY FENCE		
JOB SECT. NO.	JOB SECTION		
5133441			

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION						BILL OF MATERIAL			
DATE	APPROVED	D.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.	
00-25-79	CPW	TKK	GE	TK	2	3	M- 033618	0	

SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 5/78 SCE CO

ITEM	QUANTITY	UNIT	MATERIAL CLASS	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
3E	396	FT	C165	70608		PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE SIZE. IN.      OUTSIDE DIA., IN.      WALL THICKNESS, IN.  1-1/4                      1.660                      0.140  * * BRACE RAIL 11 FT 0 IN. LONG	
3F	18	EA	C060	97505		TURNBUCKLE, EYE & EYE, GALV IRON, 3/8 IN X 6 IN, #G226	
3G	36	EA	C131	57201		END, RAIL, FOR 1-1/4 IN STD PIPE	
3H	36	EA	C131	57409		END, RAIL, FOR 1-1/4 IN STD PIPE	
3J	126	EA	C131	48002		BAND, FABRIC, ALUMINUM, 2-1/2 IN OD	
3K	36	EA	C336	60100		CLIP, CROSBY WIRE ROPE  SIZE INCHES  1/4	
3L	432	FT	C597	10301		STRAND, STEEL, GALV, MATL STD #24  DIA INCHES      STRANDS      STRENGTH  1/4                      7                      HS CONV. FACTORS - NO. CABLE      FT PER LB  1                                      8.264	
3M	18	EA	C131	75005		TIGHTNER, TRUSS ROD, 1/2 IN MIN EYE BOLT, WITH NOT LESS THAN 6 IN OF THREADED BOLT STOCK WITH HEX NUT	
3N	18	EA	C131	51907		BAR, TENSION, 1/4 X 3/4 IN X 8 FT	
3R	36	EA	C131	44506		BAND, BRACE, 1/8 X 1 IN, FOR 2 IN STD PIPE	

ASSEMBLY

<u>SOLAR ONE SITE</u>	<u>7361A</u>	_____
LOCATION NAME	JOB ORDER	_____
<u>SG01</u>	<u>PERIMETER SECURITY FENCE</u>	_____
JOB SECT. NO.	JOB SECTION	_____
<u>5133441</u>	_____	_____

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION						BILL OF MATERIAL				
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	MATERIAL NUMBER	REV.		
09-25-79	<i>CPM</i> CPW	TKK <i>gk</i>	<i>gk</i> GE	TK	3	4	M- 033618	0		

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DATE
REV.

SOUTHERN CALIFORNIA EDISON COMPANY

ITEM	QUANTITY	U N I T	REG. OR L.	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
3S	9	EA	C			CONCRETE 0.18 C.Y.	
3T	9	EA	C131	43003		ARM, EXTENSION FOR MOUNTING BARBED WIRE, WITH 1/4 X 1-1/2 IN BOLTS AND NUTS	
3U	18	EA	C131	76003		TOP, EYE, FOR 2 IN. PIPE	
3V	9	EA	C131	53200		CAP, POST, FOR 2-1/2 INCH STD POST	
3W	9	EA	C131	52806		CAP, POST, FOR 1-1/2 IN STD. PIPE	
3X	18	FT	C165	70707		PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE                      OUTSIDE                      WALL THICK- SIZE, IN.                      DIA., IN.                      NESS, IN.  1-1/2                      1.900                      0.145	
3Y	63	EA	C131	47004		BAND, BRACE, CORNER, 1/8 X 1 IN, FOR 2-1/2 IN STD PIPE	
3Z	108	EA	C131	50800		BAND, TENSION, CORNER, 1/8 X 1 IN, FOR 2-1/2 IN STD PIPE	
4A						2-1/2 IN GATE POST FOR 8 FT. CHAIN LINK FENCE. WITH BARBED WIRE EXTENSION ARMS INCLUDING BRACE POST, AS FOLLOWS-  ECS 71-03-02 SHT.S2 DETAIL NO.8A ASSEMBLY S-0613	

DESIGNER  
 CHECKED  
 APPROVED  
 DATE  
 REV.

<u>SOLAR ONE SITE</u>		<u>7361A</u>	ASSEMBLY
LOCATION NAME		JOB ORDER	<u>S-0613</u>
<u>SG01</u>	<u>PERIMETER SECURITY FENCE</u>		
JOB SECT. NO.	JOB SECTION		
<u>513344I</u>			

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION						BILL OF MATERIAL			
DATE	APPROVED	D.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.	
09-25-79	<i>CPW</i> CPW	TKK <i>TKK</i>	<i>921</i> GE	TK	4	5	M- 033618	0	

ENG 52 DP 5.78 SCE CO

SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 5 78 SCE CO

DESIGNER
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APPROVED
DATE
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CHECKED
APPROVED
DATE
REV.

ITEM	QUANTITY	UNIT	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
			CLASS	ITEM		
4C	78	FT	C165	70905	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE                    OUTSIDE    WALL THICK- SIZE, IN.            DIA., IN.    NESS, IN.  2-1/2                    2.875            0.203  * * GATE POST 12 FT 6 IN. LONG	
4D	66	FT	C165	70806	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE                    OUTSIDE    WALL THICK- SIZE, IN.            DIA., IN.    NESS, IN.  2                            2.375            0.154  * * BRACE POST 10 FT 6 IN. LONG	
4E	132	FT	C165	70608	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE                    OUTSIDE    WALL THICK- SIZE, IN.            DIA., IN.    NESS, IN.  1-1/4                    1.660            0.140  * * BRACE RAIL 11 FT 0 IN. LONG	
4F	6	EA	C060	97505	TURNBUCKLE, EYE & EYE, GALV IRON, 3/8 IN X 6 IN, #G226	
4G	12	EA	C131	57201	END, RAIL, FOR 1-1/4 IN STD PIPE	
4H	12	EA	C131	57409	END, RAIL, FOR 1-1/4 IN STD PIPE	
4J	42	EA	C131	48002	BAND, FABRIC, ALUMINUM, 2-1/2 IN OD	

ASSEMBLY

<u>SOLAR ONE SITE</u>	<u>7361A</u>	
LOCATION NAME	JOB ORDER	
<u>SG01</u>	<u>PERIMETER SECURITY FENCE</u>	
JOB SECT. NO.	JOB SECTION	

5133441

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION				BILL OF MATERIAL					
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.	
09-25-79	<i>CPW</i> CPW	<i>TKK</i>	<i>GE</i>	TK	5	6	M- 033618	0	





SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 5/78 S.C.E. CO

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APPROVED	
DATE	
REV.	

ITEM	QUANTITY	UNIT	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
			CLASS	ITEM		
4X	12	FT	C165	70707	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE                      OUTSIDE      WALL THICK- SIZE, IN.                  DIA., IN.          NESS, IN.  1-1/2                      1.900                  0.145 * BW EXT. ARM 18 IN. LONG	13.14
5A					3-1/2 IN GATE POST FOR 8 FT CHAIN LINK FENCE. WITH BARBED WIRE EXTENSION ARMS. INCLUDING BRACE POST, AS FOLLOWS-  ECS 71-03-02 SHT.S2 DETAIL NO.88 ASSEMBLY S-0614	
5C	130	FT	C165	71101	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE                      OUTSIDE      WALL THICK- SIZE, IN.                  DIA., IN.          NESS, IN.  3-1/2                      4.000                  0.226 * * GATE POST 12 FT 6 IN. LONG	
5D	110	FT	C165	70806	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE                      OUTSIDE      WALL THICK- SIZE, IN.                  DIA., IN.          NESS, IN.  2                              2.375                  0.154 * * BRACE POST 10 FT 6 IN. LONG	

<u>SOLAR ONE SITE</u> LOCATION NAME	<u>7361A</u> JOB ORDER	ASSEMBLY <u>S-0614</u>
<u>SG01</u> JOB SECT. NO.	<u>PERIMETER SECURITY FENCE</u> JOB SECTION	
<u>5133441</u> REFERENCE DRAWING NUMBERS		

REVISION DESCRIPTION						BILL OF MATERIAL			
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.	
09-25-79	<i>CPW</i> CPW	<i>TKK</i>	<i>gms</i> GE	TK	7	8	M- 033618	0	

SOUTHERN CALIFORNIA EDISON COMPANY

ITEM	QUANTITY	UNIT	REG. OR P.L.	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
5E	220	FT		C165	70608	PIPE, GALVANIZED STEEL. BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C  PIPE                  OUTSIDE WALL THICK- SIZE, IN.            DIA., IN.            NESS, IN.  1-1/4                  1.660                  0.140 * * BRACE RAIL 11 FT 0 IN. LONG	
5F	10	EA		C060	97505	TURNBUCKLE, EYE & EYE, GALV IRON, 3/8 IN X 6 IN, #G226	
5G	20	EA		C131	57201	END, RAIL, FOR 1-1/4 IN STD PIPE	
5H	20	EA		C131	57409	END, RAIL, FOR 1-1/4 IN STD PIPE	
5J	70	EA		C131	48002	BAND, FABRIC, ALUMINUM, 2-1/2 IN OD	
5K	20	EA		C336	60100	CLIP, CROSBY WIRE ROPE.  SIZE INCHES  1/4	
5L	240	FT		C597	10301	STRAND, STEEL, GALV, MATL STD #24  DIA INCHES      STRANDS      STRENGTH  1/4                  7                  HS CONV. FACTORS - NO. CABLE FT PER LB 1                                  8.264	
5M	10	EA		C131	75005	TIGHTNER, TRUSS ROD, 1/2 IN MIN EYE BOLT, WITH NOT LESS THAN 6 IN OF THREADED BOLT STOCK WITH HEX NUT	
5N	10	EA		C131	51907	BAR, TENSION, 1/4 X 3/4 IN X 8 FT	
5P	120	EA		C131	49307	BAND, TENSION, 1/8 X 1 IN, FOR 3-1/2 IN STD PIPE	

ASSEMBLY

SOLAR ONE SITE	7361A	
LOCATION NAME	JOB ORDER	
SG01	PERIMETER SECURITY FENCE	
JOB SECT. NO.	JOB SECTION	
5133441		

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION							BILL OF MATERIAL			
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.		
09-25-79	<i>CPW</i> CPW	TKK <i>[signature]</i>	<i>g</i> GE	TK	8	9	M- 033618	0		

REV. DATE APPROVED CHECKED DESIGNER  
 REV. DATE APPROVED CHECKED DESIGNER

ENG 52 DP 3/78 SCE CO

**SOUTHERN CALIFORNIA EDISON COMPANY**

ENG 52 DP 5.78 S.C.E. CO

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APPROVED	
DATE	
REV.	

DESIGNER	
CHECKED	
APPROVED	
DATE	
REV.	

ITEM	QUANTITY	UNIT	REG. OR P.L.	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST									
				CLASS	ITEM											
5Q	70	EA	C	131	45503	BAND, BRACE, 1/8 X 1 IN. FOR 3-1/2 IN STD PIPE										
5R	20	EA	C	131	44506	BAND, BRACE, 1/8 X 1 IN. FOR 2 IN STD PIPE										
5S	10	EA	C			CONCRETE 0.20 C.Y.										
5T	10	EA	C	131	43003	ARM, EXTENSION FOR MOUNTING BARBED WIRE, WITH 1/4 X 1-1/2 IN BOLTS AND NUTS										
5U	10	EA	C	131	76003	TOP, EYE, FOR 2 IN. PIPE										
5V	10	EA	C	131	53606	CAP, POST, FOR 3-1/2 IN STD PIPE										
5W	10	EA	C	131	52806	CAP, POST, FOR 1-1/2 IN STD. PIPE										
5X	20	FT	C	165	70707	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS										
						<table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">PIPE</td> <td style="text-align: center;">OUTSIDE</td> <td style="text-align: center;">WALL THICK-</td> </tr> <tr> <td style="text-align: center;">SIZE, IN.</td> <td style="text-align: center;">DIA., IN.</td> <td style="text-align: center;">NESS, IN.</td> </tr> <tr> <td style="text-align: center;">1-1/2</td> <td style="text-align: center;">1.900</td> <td style="text-align: center;">0.145</td> </tr> </table>	PIPE	OUTSIDE	WALL THICK-	SIZE, IN.	DIA., IN.	NESS, IN.	1-1/2	1.900	0.145	
PIPE	OUTSIDE	WALL THICK-														
SIZE, IN.	DIA., IN.	NESS, IN.														
1-1/2	1.900	0.145														
						* * BW EXT. ARM 18 IN. LONG										
6A						MATERIAL FOR 16 FT. DOUBLE DRIVE GATE CONSISTING OF THE FOLLOWING  ECS 71-03-02 SHTS. S3 & S4 ASSEMBLY S-0623										
6B	4	EA	C	131	63506	GATE, DRIVE, DOUBLE, 16 FT WIDE, 8 FT HIGH, CHAIN LINK, WITH BARBED WIRE EXT, WITH FITTINGS FOR 3-1/2 INCH STD PIPE, W/LATCHING DEVICE										

<u>SOLAR ONE SITE</u> LOCATION NAME	<u>7361A</u> JOB ORDER	ASSEMBLY <u>S-0623</u>
<u>SG01</u> JOB SECT. NO.	<u>PERIMETER SECURITY FENCE</u> JOB SECTION	
<u>5133441</u>		

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION						BILL OF MATERIAL			
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.	
09-25-79	<i>CPW</i> CPW	<i>[Signature]</i>	<i>[Signature]</i> GE	TK	9	10	M- 03361A	0	

SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 5/78 S C E CO

DESIGNER	CHECKED	APPROVED	DATE	REV.
DESIGNER	CHECKED	APPROVED	DATE	REV.

ITEM	QUANTITY	UNIT	REG. OR P.L.	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
6CA						MATERIAL FOR GATE STOP CONSISTING OF THE FOLLOWING ECS 71-03-02 SHT. S3 ASSEMBLY B-8000	
6CB	8	EA	C			CONCRETE 2500 PSI @ 28 DAYS 0.13 CY	
6CC	24	FT	C	165	70608	PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE                      OUTSIDE          WALL THICK- SIZE, IN.                  DIA., IN.          NESS, IN.  1-1/4                      1.660                  0.140 * POST 2 FT. 6 IN. LONG	
6CD	8	EA	C	131	52707	CAP, POST, GALV. FOR 1-1/4 IN IPS PIPE -1-5/8 IN O.D.-	
6CE	8	EA	C			GATE KEEPER, BY MASTER FENCE FITTINGS INC. PART NO. 15901	
7	3	EA	C			GATE SINGLE 4FT WIDE BY 8FT HIGH CHAIN LINK WITH BARBED WIRE WITH FITTINGS FOR 2-1/2 IN STD PIPE W/ LATCHING DEVICE PER ECS 71-03-02 SHT S3 TO INCLUDE SPRING SELF-CLOSING DEVICE	
8	1	EA	C			GATE DOUBLE 26FT WIDE BY 8FT HIGH CHAIN LINK WITH BARBED WIRE WITH FITTINGS FOR 3-1/2 IN STD PIPE W/ LATCHING DEVICE PER ECS 71-03-02 SHT S3 WITH 3" Ø WHEELS	
9	1	LT	C			CMP CULVERT BARRIER  ECS 71-03-02 SHT.S2 DETAIL NO.9 CONSISTING OF ITEM 010	

<u>SOLAR ONE SITE</u> LOCATION NAME	<u>7361A</u> JOB ORDER	ASSEMBLY <u>B-8000</u>
<u>SG01</u> JOB SECT. NO.	<u>PERIMETER SECURITY FENCE</u> JOB SECTION	
<u>513344</u> REFERENCE DRAWING NUMBERS		

REVISION DESCRIPTION					BILL OF MATERIAL				
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	MATERIAL NUMBER	REV.	
09-25-79	<i>CPA</i> CPW	TKK	<i>Gene</i> GE	TK	10	11	M- 03361A	0	

SOUTHERN CALIFORNIA EDISON COMPANY

ENG 52 DP 578 SCE CO

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DATE	
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ITEM	QUANTITY	UNIT	CLASS	MATERIAL CODE		DESCRIPTION	EXTENDED STANDARD COST
				CLASS	ITEM		
10	360	FT	C046	25505		BAR, DEFORMED REINFORCING STEEL, INTERMEDIATE GRADE, ASTM DESIGNATION A-615 GRADE 40, 20FT LENGTHS  SIZE NO      SIZE INCHES      BAR SHAPE      POUNDS PER FT  5              5/8              RND              1.043	
11	1	LT	C			DRAINAGE DITCH BARRIER ECS 71-03-02 SHT S2 DETAIL NO 10 CONSISTING OF ITEMS 012 THROUGH 015	
12	4	EA	C131	44506		BAND, BRACE, 1/8 X 1 IN, FOR 2 IN STD PIPE	
13	4	EA	C131	57409		END, RAIL, FOR 1-1/4 IN STD PIPE	
14	20	FT	C165	70608		PIPE, GALVANIZED STEEL, BUTT WELDED ASTM DESIGNATION A-120, SCH 40, T&C EXACT 21 FT LENGTHS  PIPE SIZE, IN.      OUTSIDE DIA., IN.      WALL THICKNESS, IN.  1-1/4                  1.660                  0.140	
15	200	FT	C046	25505		BAR, DEFORMED REINFORCING STEEL, INTERMEDIATE GRADE, ASTM DESIGNATION A-615 GRADE 40, 20FT LENGTHS  SIZE NO      SIZE INCHES      BAR SHAPE      POUNDS PER FT  5              5/8              RND              1.043	

SOLAR ONE SITE	7361A	ASSEMBLY
LOCATION NAME	JOB ORDER	
SG01	PERIMETER SECURITY FENCE	
JOB SECT. NO.	JOB SECTION	
513344I		

REFERENCE DRAWING NUMBERS

REVISION DESCRIPTION						BILL OF MATERIAL				
DATE	APPROVED	O.K.	CHECKED	DESIGNED	SHEET	SHEET	"M" NUMBER	REV.		
09-25-79	<i>CPW</i> CPW	TKK <i>TKK</i>	<i>GE</i> GE	TK	11	CONT. ON - -	M- 033618	0		

SOUTHERN CALIFORNIA EDISON COMPANY  
Rosemead, California

PROPOSAL REQUIREMENTS

Short-Form

SPECIFICATION 40-0202

CONSTRUCTION OF SITE FENCING  
AND GATES  
SOLAR ONE GENERATING STATION

1. SCOPE

Bidder shall comply with all requirements of these Proposal Requirements. These Proposal Requirements shall be submitted with all instructions fulfilled and all spaces filled in to present a complete proposal for the Work described in the Specification. Incomplete proposals may be rejected.

Bidder shall not substitute, nor use a preprinted reference to bidder's general terms and conditions in lieu of Edison's General Terms and Conditions as set forth in the specification. Any proposal received with such substitution shall be considered nonresponsive and be subject to rejection.

All proposals submitted by bidder, including drawings and other data, shall become the property of Edison and shall not be used for any purpose other than in connection with the procurement of the Work.

2. INSPECTION OF JOBSITE

Each bidder, before submitting its proposal, shall visit the Jobsite to satisfy itself as to the nature and location of the Work, the general and local Jobsite conditions, the transportation and handling of Material, the environmental and physical conditions at the Jobsite, the character of the equipment, facilities, labor conditions, safety and security precautions, and all matters which may affect the performance of the Work and its cost. Such Jobsite visits shall be arranged by and made with the Engineer. Notification of the initial Jobsite visit shall be made through the Buyer.

3. CONSTRUCTION PLAN

Bidder shall provide an attachment containing the following information:

- A. A narrative description of how the Work is planned to be performed including the Work area and laydown area required.

SPECIFICATION 40-0202  
Fencing and Gates  
Solar One

Bidder \_\_\_\_\_  
Date \_\_\_\_\_

PROPOSAL REQUIREMENTS

- B. The number and size of construction teams to be utilized.
- C. A listing of the major types and quantities of construction equipment required (both bidder owned and leased).
- D. The quantities of Material required for the Work.
- E. A summary milestone schedule showing the time phasing of the main activities to be performed within the start and work completion date.

4. EXPERIENCE RECORD OF SUPERINTENDENT

Bidder shall provide an attachment listing the name(s) and experience record of the construction superintendents whom it expects to employ in the Work. The record shall cover in detail the superintendent's construction experience in the subject Work, and indicate his reliability for satisfactorily meeting scheduled completion dates.

The construction superintendent shall be at the Jobsite at all times during construction and shall be authorized to speak and act on behalf of Contractor.

5. LIST OF SUBCONTRACTORS

Edison is actively involved in developing and employing minority owned and small business enterprises, and encourages its suppliers and contractors to identify and utilize minority owned and small business subcontractors when contracting for work with Edison.

Bidder shall list the Subcontractors and the Work to be performed by each Subcontractor.

<u>Subcontractor</u>	<u>Minority Subcontractor Yes/No</u>	<u>Work by Subcontractor</u>
_____	_____	_____

6. TECHNICAL DEVIATIONS

Bidder shall provide a complete list of technical items of deviation and exception to the Specification on which this proposal is based, referencing the Section No. and explaining the deviation. If there are no deviations, bidder shall so indicate.

SPECIFICATION 40-0202  
Fencing and Gates  
Solar One

Bidder \_\_\_\_\_  
Date \_\_\_\_\_



PROPOSAL REQUIREMENTS

7. PRICES

Bidder shall submit a fixed price quote.

GRAND TOTAL PRICE for performing all the Work and all provisions described by the Specification is as follows:

\$ \_\_\_\_\_  
(Figures)  
\_\_\_\_\_ Dollars  
(Words)

7.1 Unit Prices

The following unit prices shall be used for adjusting the Grand Total Price for additions to or deletions from the Work:

<u>Item</u>	<u>Unit Pricing for Changes</u>	<u>Unit</u>
1. 8 ft. high Chain Link Fence with Barbed Wire	_____	Per Lineal Ft.
2. 4 ft. Walk Gates	_____	Each installed
3. 16 ft. Double Drive Gates	_____	Each pair installed
4. 26 ft. Double Drive Gates	_____	Each pair installed

8. TERMS OF PAYMENT

Bidder shall state the specific terms of payment proposed, in compliance with Section 5, of the General Terms and Conditions, and a schedule of such proposed payments. If specific terms of payment are not proposed, Edison may designate net 30 days as applicable.

9. WORK SCHEDULE

The Work shall be completed on the following date, \_\_\_\_\_, as specified in Section 2 or \_\_\_\_\_ calendar days from acceptance of the Purchase Order by bidder.

At the option of Edison, the Work may be started \_\_\_\_\_ day(s) before or \_\_\_\_\_ day(s) after the specified starting date, without affecting prices. The Work duration remains unchanged.

SPECIFICATION 40-0202  
Fencing and Gates  
Solar One

Bidder \_\_\_\_\_  
Date \_\_\_\_\_

PROPOSAL REQUIREMENTS

10. LABOR CONTRACTS

The present major labor contracts will come due for review as follows:

\_\_\_\_\_ / \_\_\_\_\_  
Date

\_\_\_\_\_ / \_\_\_\_\_  
Date

11. PROPOSAL EXPIRATION DATE

This proposal shall remain in force for a period of 90 calendar days from the day appointed for which bids are due.

12. REPRESENTATION

The undersigned hereby declares, as bidder, that the only persons or parties interested in this proposal as principals are those named herein; that this bid is made without any connection with any other person or persons making a bid for the same purpose; that this bid is in all respects fair and without collusion or fraud; and that if the bid, as submitted herein be accepted by Edison, bidder shall promptly execute and return to Edison the acceptance copy of a Purchase Order issued by Edison in accordance with the Specification; that bidder shall perform the Work and all obligations of bidder and shall complete the Work within the time specified therein; and shall accept in full payment therefor the prices named herein.

Date \_\_\_\_\_

\_\_\_\_\_  
Bidder

\_\_\_\_\_  
Bidder's License No.(s) and  
classes (if applicable)

\_\_\_\_\_  
Address and Telephone No.

\_\_\_\_\_  
By

\_\_\_\_\_  
Title

SPECIFICATION 40-0202  
Fencing and Gates  
Solar One

Bidder \_\_\_\_\_

Date \_\_\_\_\_



DEPARTMENT OF ENERGY  
SAN FRANCISCO OPERATIONS OFFICE

CONTRACTOR REQUEST FOR PATENT CLEARANCE  
FOR RELEASE OF UNCLASSIFIED DOCUMENT

Prime Contract No.	DE-AC03-77SF10501
Subcontract No.	NA
Report No.	(SIMPO 500)
DOE/SF/10501-023	
Date of Report	December 1979
Name & Phone No. of DOE Technical Representative	Mike Lopez (415) 273-4264

TO: Roger S. Gaither, Asst. Chief for Prosecution  
Office of Patent Counsel/Livermore Office  
P.O. Box 808, L-376  
Livermore, California 94550

FROM: Southern California Edison  
P.O. Box 800  
Rosemead, CA 91770

- Document Title: **Construction of Site Fencing and Gates  
Solar One Generating Station**
- Type of Document:  Technical Report,  Conference Paper,  Journal Article,  Abstract or Summary,  
 Copy of Oral Presentation,  Other (please specify): \_\_\_\_\_
- In order to meet a publication schedule or submission deadline, patent clearance by (Routine)  
would be desired.

**SENDER IS TO CHECK BOX #4 OR #5 BELOW.**

4. I have reviewed (or have had reviewed by technically knowledgeable personnel) this document for possible inventive subject matter (Subject Inventions) and that no inventions or discoveries (Subject Inventions) are deemed to be disclosed in this document except as stated below:
- Attention should be directed to pages \_\_\_\_\_ of this document.
  - This document describes matter relating to an invention:
    - Contractor Invention Docket No. \_\_\_\_\_
    - A disclosure of the invention was submitted to DOE on \_\_\_\_\_ (date)
    - A disclosure of the invention will be submitted shortly \_\_\_\_\_ (approximate date)
    - A waiver of DOE's patent rights to the contractor:
  has been granted,  has been applied for; or  will be applied for \_\_\_\_\_ (date)

5. This document is being submitted, but no review has been made of this document for possible inventive subject matter.

Please provide copy of clearance to:

6. Remarks:

%Joyce Wells Room 497

Southern California  
Edison Company  
P.O. Box 800  
Rosemead, CA 91770

Reviewing/Submitting Official: Name (Print/Type) Bill von KleinSmid

Title Solar One Program Director

Signature William von KleinSmid/jw Date 9-25-84

TO: INITIATOR OF REQUEST

FROM: ASSISTANT CHIEF FOR PROSECUTION  
Office of Patent Counsel/Livermore Office

No patent objection to above-identified release.

Please defer release until advised by this office.

Signed

Harold M. Dixon

Date Mailed

10/9/84