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SOUTHERN CALIFORNIA EDISON COMPANY
Rosemead, California

SPECIFICATION 40-0105

FURNISH AND INSTALL
CONTROL BUILDING PASSENGER ELEVATOR
SOLAR ONE GENERATING STATION

June 11, 1980

Approved for Issue:

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Date 6/12/80

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Project Architect

Date 6.12.80

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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 reimbursable 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 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.

SECTION 2

SUPPLEMENTAL REQUIREMENTS

2.1 PROJECT SUMMARY

This Specification covers the requirements for furnishing and installing one passenger elevator in the Control Building at the Solar One Generating Station located approximately three miles east of Daggett, San Bernardino County, California.

2.2 WORK COMPLETION DATE

The Work shall be completed by March 2, 1981.

2.3 CORRESPONDENCE

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

Mr. C. P. Winarski
Solar One Project Engineer
Southern California Edison Company
P. O. Box 800
Rosemead, California 91770

2.4 SHIPPING ADDRESS

Southern California Edison Company
Solar One Project
3 Mi E/O Daggett
Santa Fe Avenue
Daggett, California 92327

2.5 SCHEDULE

Within ten calendar days after award of the Purchase Order, Contractor shall submit, to the address given in Section 2.3, its proposed Work schedule for approval as follows:

2.5.1 Work Schedule

The schedule shall show the order in which Contractor proposes to proceed with the Work and shall include dates on which the different stages of Work are to begin and the estimated dates of completion of each stage of Work. The schedule shall be consistent in all respects with the time requirements described in the Purchase Order and shall be adequate to meet all other requirements of this Specification. The schedule should indicate the dates of Material acquisition and delivery to Jobsite. It shall also show

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estimates of monthly Work progress based upon those dates, i.e., the percentage of each major item scheduled to be completed at any given time, together with commencement and completion dates for all items of Work.

2.5.2 Progress Charts

Contractor shall enter on a copy of the Work Schedule the actual progress of Work at the end of each week, or at such intervals as directed by the Engineer, and submit the copy to the Engineer as directed.

2.6 AS-BUILT (RECORD) DRAWINGS

One complete set of design drawings shall be designated for mark-up purposes to depict field changes. Such field changes include alterations in routing of cable, conduit or piping to avoid interference; relocation of components and Apparatus, such as light fixtures and structural changes. These deviations from original particulars of construction do not change the intent of the design or necessitate engineering redesign, but they require approval by the Engineer. Such changes shall be recorded on the "as-built" set of design drawings as they are instituted. Light green pencil shall be used to indicate deletions; red to show additions and changes. The complete set of "as-built" drawings, fully marked-up, shall be submitted to the Engineer within one week after acceptance of the Work.

END FIRST PART SECTION 2

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SUBSECTION 2A

SUPPLEMENTAL GENERAL TERMS AND CONDITIONS

The following sections constitute additions and changes to Section 1, General Terms and Conditions, of this Specification.

2A.1 SUPPLEMENTAL DEFINITIONS

2A.1.1 Edison

Southern California Edison Company and Department of Water and Power of the City of Los Angeles, acting through Southern California Edison Company as principal in its own behalf and as agent for Department of Water and Power of the City of Los Angeles, with Southern California Edison Company having an undivided 80 percent interest and Department of Water and Power of the City of Los Angeles having an undivided 20 percent interest in the Purchase Order.

2A.1.2 Architect/Engineer

The terms Architect and Engineer are synonymous as used throughout this Specification.

2A.2 INSURANCE

The insurance provisions in Section 10 are deleted in their entirety and superseded by the following:

2A.2.1 With respect to liabilities arising out of performance of 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 pick-ups, operators or renters of aircraft, and suppliers or manufacturers from whom only purchases are being made, and consultants, the following types of insurance with limits as shown:

2A.2.1.1 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 Longshoremens' 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.

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2A.2.1.2 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, and an annual aggregate for each insured in excess of the above primary, subject to \$45,000,000 combined single limit each occurrence for all insureds under the Master Insurance Program in excess of the above primary.

For any property damage claims made against Contractor or Subcontractor, a deductible for the account of the Contractor or Subcontractor shall be: (i) \$5,000 each occurrence, if the loss or damage is recoverable under Edison's builder's risk insurance, or (ii) \$2,500 each occurrence, as respects all other loss or damage.

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.

Edison 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.

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.

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

2A.2.1.3 All Risk, Builder's Risk Insurance for work at risk at Edison's facility; included in such work at risk is: (i) Edison's facility, (ii) the Work at risk at the Jobsite, (iii) the Material that is to become part of the Work, whether at or in-transit to the Jobsite, (iv) work performed by Edison Contractors which is at risk at the Jobsite, (v) material supplied by Edison and/or Edison Contractors that is to become part of the facility, whether at or in-transit to the Jobsite, and (vi) other items as may be allowed in the policies. Limits shall be not less than the value of the maximum probable loss of such work at risk, as determined by Edison at its sole discretion; provided, however, that such limits shall in no event exceed \$100,000,000 for all named and additional insureds each loss. The

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limits for damage by earthquake and flood and/or surface water shall be limited to: (i) the maximum probable loss determined pursuant to this Section per occurrence, and (ii) an annual aggregate for any one policy year of the maximum probable loss determined pursuant to this Section.

If a loss exceeding the maximum limits of such insurance occurs, the named and additional insureds shall share the proceeds of such insurance proportionately in accordance with the following formula:

$$\begin{array}{rcl} \text{Amount of} & & \text{Amount of} \\ \text{Insurance} & & \text{Insurance} \\ \text{Recovered} & = & \text{in Effect at the} \\ \text{by Each} & & \text{Time of Loss} \\ \text{Insured} & & \text{Sum of Losses for} \\ & & \text{all Insureds} \end{array} \quad \times \quad \begin{array}{r} \text{Amount of} \\ \text{such Insured's} \\ \text{Individual} \\ \text{Loss} \end{array}$$

A deductible of \$5,000 each loss shall be for the account of Contractor or Subcontractors, as appropriate. Any deductible amount in excess of \$5,000 shall be for the account of Edison.

Edison shall add Contractor and Subcontractors as additional insureds on such insurance.

2A.2.1.4 In the event of contemplated reduction in coverage or cancellation of any insurance referred to in Sections 2A.2.1.1, 2A.2.1.2 and 2A.2.1.3, 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.

The named insureds shall not, by reason of its or their inclusion under the insurance referred to in Section 2A.2.1, incur liability for payment of premium for such insurance.

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 2A.2.1. Absent receipt of such notice, Edison shall not have any obligation to provide the insurance set forth in Section 2A.2.1 to Subcontractors.

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

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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 2A.2.1, and Edison shall handle all insurance matters relating to Subcontractors directly with such Subcontractors.

2A.2.2 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.

2A.2.2.1 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, nonowned 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 for claims shall be at Contractor's sole expense.

2A.2.2.2 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.

2A.2.2.3 If Contractor fails to comply with all of the insurance provisions of this Section 2A.2 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 2A.2 and had not caused such insurance to become uncollectible.

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SUPPLEMENTAL GENERAL TERMS AND CONDITIONS

2A.3 WARRANTY

The second sentence of Section 14, General Terms and Conditions, is hereby changed to read:

...expense and promptly after notification and within two years after acceptance....

END OF SUBSECTION 2A

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SUBSECTION 2B

JOBSITE REQUIREMENTS

2B.1 CONTRACTOR'S FACILITIES

Before proceeding with the erection of any construction facilities, including temporary structures, equipment, offices and warehouses, Contractor shall provide the Engineer with dimensions, descriptions, and proposed location of all such facilities, with capacities and capabilities of the equipment. The construction facilities shall be adequate for the purpose intended, and shall conform with the requirements of this Specification and all local and State regulations.

2B.2 IDENTIFICATION OF CONTRACTOR'S FACILITIES

2B.2.1 Identification of Equipment

When requested by Edison, all vehicles and construction equipment used by Contractor or Subcontractors on the Work shall be clearly marked with the Contractor's or Subcontractor's business title.

2B.2.2 Identification of Contractor's Employees

Contractor shall provide each of its employees and its Subcontractors' employees with a numbered badge bearing the name or initials of the contracting firm. Each employee shall wear his badge upon his person while at the Jobsite.

2B.3 SANITATION

All portions of the Work shall be maintained in a neat, clean, and sanitary condition at all times. Toilets shall be supplied by Contractor, where needed, for use of the employees on the Work. Their use shall be strictly enforced. The Engineer shall be permitted to use Contractor's sanitary facilities.

2B.4 VISITOR'S LOG

If required by the Engineer, Contractor shall maintain a visitor's log in which each visitor shall be required to sign his name, date, and purpose of visit. It shall be forwarded to the office of the Project Manager, at the address given in Section 2.3 when the Work is completed.

2B.5 ACCESS AND PARKING

The Engineer shall indicate the access route to the Jobsite and the parking areas to be used by transport vehicles and all employees of Contractor. These directions shall be strictly adhered to and no other routes or areas shall be used without permission of the Engineer.

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2B.6 UTILITIES

2B.6.1 Water

Edison shall furnish water for industrial use on the Work but not drinking water. Contractor shall furnish and connect its own lines to the utility outlet designated by the Engineer.

2B.6.2 Electric Power

Edison shall furnish 480 volt, 3-phase, electrical power to a maximum of 100 amperes to a single location at the Jobsite. Contractor shall install and be responsible for all transformers, switches, fuses and other necessary electrical connections beyond the Edison termination point.

2B.6.3 Telephone

Edison shall provide no telephone service. Contractor shall make arrangements with the local telephone utility if telephones are desired.

2B.7 DUST CONTROL

Contractor shall make every reasonable effort to keep the amount of dust raised during the course of the Work on the Jobsite and on haul and access roads to a minimum. Any methods known to be effective which are approved by the Engineer shall be used. The measures employed shall not create a hazard or cause a nuisance to nearby residences, crops, the Work, or the operations of other contractors. No additional money shall be paid to Contractor for dust control. Petroleum products shall not be used for dust control.

2B.8 CLEAN UP

During the progress of the Work, Contractor shall keep the area occupied by it, and access to such areas, in a neat, clean and safe condition.

Upon completion of any portion of the Work, Contractor shall promptly remove all rubbish and equipment, temporary structures, and surplus construction Material not intended for future use at or near the same location during the later stages of the Work.

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

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JOBSITE REQUIREMENTS

2B.9 FIRE PROTECTION

Fire protection for Contractor's Material, facilities and equipment shall be furnished and maintained by Contractor. No fire protection equipment or personnel shall be provided by Edison.

2B.10 CONCURRENT WORK OF OTHERS

Edison shall undertake and award other work which will be performed concurrently with this Work. Contractor shall cooperate fully with the Engineer in coordinating project activities so as to minimize interference with or delay the work of others, and to assure orderly and expeditious performance and completion of the project as a whole. Contractor shall anticipate that its Work may be interfered with and temporarily delayed from time to time because of the concurrent performance of work by others, and Contractor shall fully cooperate with other contractors to minimize delay or hindrance of the Work. The Engineer shall assist with scheduling and planning between contractors to facilitate attainment of the overall objectives for the timely completion of the Work. Should any conflicts occur, the Engineer may direct that Contractor's operations be modified.

END OF SUBSECTION 2B

SUBSECTION 2C

CONTRACTOR'S PERSONNEL REQUIREMENTS

2C.1 CONTRACTOR'S REPRESENTATIVE

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

All written instructions, orders, or other communications delivered to Contractor's representative at the Jobsite shall be considered as having been delivered to Contractor's main office.

2C.2 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 this 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 the Contractor's supervisory personnel, Contractor shall assign additional qualified personnel to the Work.

2C.3 PROGRESS MEETINGS

Unless waived by the Engineer, Contractor shall attend weekly progress meetings at the Jobsite. The participants shall include the Contractor's principal representatives, Subcontractors' representatives, as appropriate, and the Engineer. The purpose shall be to review progress and schedule Work and deliveries of Material. The result to be desired from the progress meetings shall be to inform all concerned on the matters discussed and to obtain coordinated action that will best assure performance pursuant to the basic schedule.

2C.4 QUALIFICATIONS OF EMPLOYEES

Contractor shall employ only competent and skilled employees to perform the Work. If Edison notifies Contractor that any employee on the Jobsite is, in its opinion, incompetent, disorderly, uses threatening or abusive language to any person on the Jobsite, or is otherwise unsatisfactory, the following steps shall be taken:

- A. Contractor shall review the circumstances which prompted Edison to notify Contractor of the problem.

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CONTRACTOR'S PERSONNEL REQUIREMENTS

B. Upon completion of A, Edison and Contractor shall meet and determine whether (i) any further action is necessary, (ii) the employee is to be counseled regarding the problem or (iii) the employee is to be discharged.

C. The employee shall not be employed by Contractor on the Jobsite again if discharged, except with the written consent of Edison.

END SUBSECTION 2C

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SECTION 3

TECHNICAL REQUIREMENTS

3.1 SCOPE OF WORK

Contractor shall furnish all Work and Material required to furnish and install a complete and operating passenger elevator system in the Control Building, as indicated on the drawings and as specified herein.

3.2 MAJOR ITEM OF WORK

The major items of Work shall include, but are not necessarily limited to furnishing and installing one complete passenger elevator installation.

3.3 CODES AND STANDARDS

The Work shall be in compliance with the following codes and standards, as amended to the date of this Specification, which are hereby made a part of this Specification. In case of conflict between codes, the local codes shall prevail.

If this Specification or the drawings specify or describe Materials, workmanship or construction of a better quality, higher standard or larger size than that required by the listed codes and standards, the provisions of this Specification or the drawings shall take precedence.

American National Standards Institute (ANSI)

ANSI - A17.1 - Elevators, Dumbwaiters, Escalators, and Moving Walks

National Electric Code

3.4 SUBMITTALS

Contractor shall submit the following data as specified:

3.4.1 Operating and Maintenance Manuals

Contractor shall submit five copies of operating and maintenance data to the Engineer for approval 30 days prior to acceptance of the Work by Edison. All data shall be submitted complete and at the same time.

3.4.2 Warranty

Contractor shall furnish a written warranty, for a period of two years from date of acceptance of the Work by Edison.

In addition, Contractor shall furnish standard manufacturers certificates which warrant equipment beyond two years from date of acceptance.

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TECHNICAL REQUIREMENTS

3.4.3 Test Data

Contractor shall submit to the Engineer 30 days prior to acceptance, five copies of all test data and one copy of all certified test reports as required herein or as indicated on the drawings.

3.4.4 Shop Drawings

Five copies of shop drawings shall be submitted to the Engineer for approval 30 days prior to installation of any equipment required for this Work.

3.4.5 As-Built Drawings

Contractor shall, upon completion of the Work, submit to the Engineer one complete set of as-built drawings, as specified in Section 2.7.

3.4.6 Design Loading

Contractor shall submit to the Engineer within 30 days after acceptance of the Purchase Order, a final design loading diagram for structural design verification.

3.5 EQUIPMENT AND SERVICES FURNISHED BY OTHERS

The following equipment and services, and any other so designated on the drawings, shall be installed or performed by others. Contractor shall make all necessary provisions for attaching or connecting its Work thereto. Contractor shall set all necessary equipment and Materials and shall furnish other contractors with all drawings and directions necessary to enable them to properly construct their work so that the entire system shall be properly connected.

- A. Electric service feeders to the elevator controller including a fused disconnect switch or circuit breaker.
- B. Electric feeders as required for signal system and car light including a fused disconnect switch or circuit breaker.
- C. Complete and legal hoistway, pit and machinery space with provisions in the pit floor for the jack hole.
- D. Support for guide rail brackets.
- E. Recesses for hoistway doors, sills and all signal equipment.
- F. Telephone service to a junction box located in the elevator.

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TECHNICAL REQUIREMENTS

3.6 MAINTENANCE

Contractor shall furnish regular and normally required maintenance service for the elevator supplied and installed under the Purchase Order for a period of 12 months after acceptance of the Work by Edison. All maintenance Work shall be performed during normal working hours and days. Maintenance shall include regular inspections and all necessary adjustments, greasing, oiling, and replacement of parts as required.

3.7 DESCRIPTION OF EQUIPMENT

3.7.1 Passenger Elevator

Quantity	-	1
Capacity	-	2,000 lbs
Speed (Up speed with rated load)	-	125 fpm
Travel	-	20 feet 0 inches
Number of Landings and Openings	-	2
Operation	-	2 stops, selective collective, automatic
Platform Size	-	5 feet 8 inches width by 4 feet 3 inches depth
Cab	-	Westinghouse type 120 or Engineer approved equal
Entrances	-	4 ft. 0 inch by 7 ft. 0 inch, two speed horizontal slide, baked enamel finish
Door Operation	-	Power
Machine Location	-	See drawings
Power Supply	-	480 V, 3-phase, 60 Hz
Signals and Fixtures	-	Car and corridor call register lights, pop-in position indicator in cab head jamb, corridor position indicator at main floor only, car lanterns in each door jamb

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Special Features

- Pad hooks, emergency car lighting, earthquake requirements per State Code, Braille handicap requirements per Code, Stainless steel telephone compartment with hinged door, necessary trail cable for telephone, stainless steel certificate frame, top and bottom floor access switches, two speed exhaust blower in cab, keyed speed exhaust blower in car station for lights, stainless steel handrail in rear

3.8 PIPING

Contractor shall furnish all necessary pipes and fittings to connect the power unit to the jack unit in accordance with the requirements of ANSI-A17.1. All underground piping shall be adequately protected against corrosion.

3.9 WIRING

Contractor shall furnish and install all electrical wiring necessary to connect operating buttons, switches and signals in hoistway and all electrical equipment on the car to the elevator control panel. The wiring shall be in accordance with the National Electrical Code and shall, excluding traveling cables, be installed in conduit, electrical metallic tubing or metal wireways, except that flexible conduit may be used for short runs.

Traveling cables shall be of the best grade for the service and shall be installed to provide a proper size loop to the car. They shall have a fire resistant outer braid.

3.10 TOP OF CAR OPERATING DEVICE

An inspection and maintenance station shall be mounted on top of the elevator car. The station shall contain an up-and-down direction button and an emergency stop button. The car may be operated by constant pressure on the appropriate direction button. The normal operating device shall be inoperative while the top of car operating device is in use.

3.11 POWER UNIT

A. The power unit (oil pumping and control mechanism) shall include an oil-hydraulic pump, an electric motor, a V-Belt drive assembly, an oil control unit, an oil reservoir, and oil gauge assembly, an oil strainer in the suction line, a structural steel outer base with tank supports, an oil tight drip pan, a floating inner base for mounting motor pump assembly combined in a compact and neatly designed self contained unit.

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B. The pump shall be designed and manufactured for oil-hydraulic elevator service. It shall be of the positive displacement screw type, designed for steady discharge with minimum pulsations.

C. The motor shall be of standard manufacture, designed for oil-hydraulic elevator service. It shall have a duty rating to comply with the speed and load herein specified.

D. Drive shall be multiple V-Belt with sheaves.

E. The oil control unit shall consist of an up valve, a down valve, down leveling valve, check valve, high pressure relief valve, tank shut off valve and a manually operating lowering valve. All adjustments shall be accessible and shall be made without removing the assembly from the oil line.

F. The oil reservoir shall be a rectangular reinforced overhead tank. It shall include a cover, oil level gauge and a drain plug.

G. A strainer that can be readily cleaned shall be provided to prevent foreign materials from the oil reservoir from entering the pump and oil control system.

H. A muffler shall be provided to reduce oil pulsations that originate in the power unit. It shall be designed and installed to permit inspection of interior parts without removing the blow-out proof housing from the oil line.

J. The power unit shall be enclosed in sound isolation panels. The panels shall be arranged for easy removal for service and equipment inspection.

3.12 CONTROLLER

A. The controller shall be of the magnetic type designed to give the operation as specified herein. It shall govern the starting, stopping and direction of travel of the elevator. Switches that operate power circuits shall be equipped with contacts designed to prevent sticking due to fusing. All components required for the performance of the elevator, as specified herein, shall be neatly mounted and wired in a completely enclosed cabinet having a mechanical latch door. The control cabinet shall be designed for mounting on the power unit.

B. Protection shall be provided against overload current on the motor.

C. When an alternating current power supply is used, protection shall be provided against phase reversal and phase failure. The controller equipment may operate on direct current obtained from a rectifier or auxiliary motor generator set.

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3.13 JACK UNIT

- A. The jack unit shall be designed and constructed in accordance with ANSI-A17.1. The unit shall be of sufficient size to lift the gross load to the height specified, at the rated speed specified.
- B. The jack unit shall be protected by a factory applied layer of Tapecoat. An additional sheet of steel covering shall be applied to serve as shipping protection.
- C. The jack unit shall consist of the following:
1. A plunger of heavy seamless polished steel tubing.
 2. A stop ring electrically welded to the plunger to positively prevent the plunger leaving the jack unit casing.
 3. An internal, bronze or babbitt lined, guide bearing.
 4. Packing or seal.
 5. A drip ring around the top of the casing.
 6. A scavenger line which returns oil leakage to the oil reservoir.
 7. An outer casing made of steel and providing with a pipe connection and air bleeders. Brackets shall be welded to the casing for supporting the jack unit on pit channels.

3.14 JACK HOLE

Contractor shall provide a jack hole to accommodate the jack unit. The Purchase Order shall be based on the assumption that the jack hole is bored in normal soil, sand or gravel. If rocks, boulders, water, quicksand, or other foreign matter is encountered, an allowance shall be made for the additional time required to overcome such obstacles. The allowance shall be at normal rates for drilling.

3.15 ONE CAR SELECTIVE COLLECTIVE OPERATION

- A. The operation shall be selective collective automatic. The operating equipment shall consist of push buttons in the car operating panel, numbered to correspond to the landings served, and single corridor buttons at the terminal landings, all connected electrically to the controller switches.
- B. A time limit relay shall hold the car at each floor at which stops are made a sufficient time to enable passengers to enter or leave the car.

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C. The car operating device shall contain, in addition to the push buttons described above, a red emergency stop button which, when operated, shall cause power circuits to the motor to be interrupted, a car light switch, an alarm button connected to an alarm bell outside the hoistway and such other auxiliary switches and buttons as may be required. The operation of the emergency stop button shall not cancel registered calls and after the stop button is reset, the car shall continue to answer registered calls.

3.16 DOOR OPERATION

The doors shall be power operated and shall open automatically when the car stops at a landing. The control shall be arranged to close the doors automatically a definite time after the car stops and the doors open. Pressing a corridor button at the floor where the car is standing, with its doors closed, shall reopen the doors. A door open button shall be provided in the car station for reopening the doors from within the car. Pressing a car floor dispatch button shall permit the doors to close immediately. The door closing speed shall be approximately one ft. per second to limit the force of the doors to that permitted by ANSI-A17.1 for automatic operation elevators. A protective device shall be mounted on the leading edge of the car door panel and shall extend beyond the door a sufficient amount so that when it meets an obstruction in the closing motion, it will cause the doors to reopen.

3.17 CAR AND HOISTWAY DOOR OPERATOR

A motor driven electric door operator shall be furnished and installed, designed to operate the car and hoistway doors simultaneously at any landing at a maximum opening speed of approximately two ft. per second.

The door operator shall open the car and hoistway door at the floor at which the car is stopping and shall close the doors before the car can leave the landing. The doors shall be opened by electric power and shall be closed by either electric or spring power.

3.18 INTERLOCKS

The hoistway entrance shall be equipped with an approved type interlock, tested as required by ANSI-A17.1. The interlock shall prevent the operation of the car away from a landing until the doors are locked in the closed position, as defined by ANSI-A17.1, and shall prevent opening the doors at any landing from the corridor side unless the car is at rest at that landing, or is in the leveling zone and stopping at that landing.

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3.19 HOISTWAY DOOR UNLOCKING DEVICE

Hoistway door unlocking devices, conforming to the requirements of ANSI-A17.1, shall be provided to permit authorized persons to gain access to the hoistway when the elevator car is away from the landing.

3.20 AUTOMATIC LEVELING

The elevators shall be equipped with automatic leveling devices which, when a stop is initiated within a definite range of distance in advance of a floor, shall automatically stop the car within 3/8 inch of exact level with that floor regardless of load or direction of travel. The device shall correct for overtravel or undertravel and shall maintain the car level with the floor, within 3/8 inch, regardless of change in load.

3.21 HOISTWAY ENTRANCE STRUCTURE AND ERECTION

Hoistway entrances and related Material shall be furnished and installed in accordance with manufacturers standards. The equipment shall include aluminum sills, hangers, hanger support and cover plates, fascia between landings and toe guards at the lowest landing. The hangers shall be the sheave type with two rollers per door. A suitable Material shall be used to reduce noise and eliminate metal to metal contact between the hangers and the tracks.

3.22 CORRIDOR DOOR AND FRAMES

Horizontal sliding hollow metal hoistway entrances shall be furnished and installed. The entrances shall be the manufacturer's standard design and bear the U.L. Label. Each door shall be reinforced to receive the required hardware and shall include a removable nonmetallic guide.

3.23 ERECTION

The entrances shall be set in proper relation to the elevator guide rails. The entrances shall be erected prior to construction of the corridor walls. In the event that the wall must be erected prior to the installation of the entrances, rough openings 8 inches greater in width and 4 inches greater in height shall be allowed.

3.24 FINISH

Exposed areas of the corridor doors and frames shall have a smooth factory applied baked enamel finish as selected from the manufacturer's samples.

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3.25 CAR FRAME AND PLATFORM

The car frame shall be made of formed steel, having a factor of safety as required by ANSI-A17.1. The members shall be securely fastened to form a rigid assembly. The platform shall consist of a steel frame, steel stringers, and a substantial wood floor. The underside shall be fire proofed. The platform shall be mounted within the car frame. A metal car sill with necessary groove for the car door shall be included on the platform.

3.26 CAR ENCLOSURE

A. An all metal cab, similar to the Westinghouse Design 120, shall be provided. The cab shall include doors, hangers, accessories and lighting as specified.

B. The basic cab shall consist of an all metal shell. The canopy, side and rear wall shall be finished in baked enamel as selected by Architect from the manufacturer's samples.

C. Front return panels, with integral entrance columns, shall be formed stainless steel. The transom shall also be formed stainless steel. Cab doors shall be faced with stainless steel on the car side.

D. Raised panels, faced with a plastic laminate, shall be applied to the side and rear walls of the cab. The plastic laminate shall be selected from the manufacturer's standard designs.

E. A suspended ceiling, consisting of flat translucent plastic panels with supporting mullions, shall be included. Fluorescent lighting shall be installed above the suspended ceiling to provide adequate and uniform lighting.

F. An emergency exit, in accordance with ANSI-A17.1.

G. The following cab accessories shall be provided:

1. Two-speed exhaust blower
2. Stainless steel telephone compartment
3. Car Lighting:

Normal Lighting - 120 volt ac, two fluorescent fixtures;
four, 60 watt lamps.

Emergency Lighting - 125 volt dc, one incandescent fixture;
two, 40 watt I.F. lamps.

Emergency car lighting, with alarm bell and car register lights, meeting requirements of ANSI Code.

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4. Certificate frame
5. Stainless steel handrail in rear
6. Pad hooks
7. Keyed light switch
8. Set of pads

3.27 EMERGENCY CALL BELL

An emergency call bell shall be installed in the elevator. The bell shall be of sufficient size and design to be audible outside of the hoistway at the first floor.

3.28 GUIDES

A. The car guides shall be accurately machines, standard section guide rails with tongue and grooved joints, weighing not less than specified in ANSI-A17.1. The rail sections shall be joined together in accordance with the requirements of ANSI-A17.1.

B. The guides shall be erected plumb within 1/8 inch. They shall be properly located and supported so as not to become distorted by eccentric loading. They shall be suitably bottomed in the pit and shall extend to the underside of the overhead slab or grating.

C. Contractor shall furnish all necessary rail backing as required.

D. Contractor shall provide a final design loading diagram for structural design verification within 30 days after award of the Purchase Order.

3.29 ROLLER GUIDE SHOES

Roller guide shoes shall be furnished, securely bolted to the car frame at the top and the bottom. Each roller guide shall consist of a set of three sound reducing wheels to run on the three finished rail surfaces. The wheels shall be mounted in precision type ball bearings and held in contact with the rail surface by means of adjustable cushioning devices. Sliding guide shoes shall not be acceptable substitutes.

3.30 BUFFERS

Suitable spring buffers with the necessary blocking and supports shall be installed in the elevator pit under the car.

3.31 TERMINAL LIMITS

Limit switches shall slow down and stop the car at the terminals if the normal automatic stopping system should fail.

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3.32 CAB ACCESSORIES

- A. A two speed blower, with a controlling switch in the car station, shall be furnished. The blower shall be quiet in operation, free from vibration, and of sufficient size to ventilate the car thoroughly.
- B. A stainless steel handrail shall be furnished on the rear wall of the cab. The handrail shall be of the manufacturer's standard design without visible fastenings.
- C. One set of elevator cab pads, with appropriate fasteners shall be provided. The pads shall be quilted, soil resistant, and fire retardant.
- D. A stainless steel telephone compartment shall be provided. The compartment shall consist of a swing door and all necessary trail cables.

3.33 SIGNALS AND ACCESSORIES

3.33.1 Car Station Call Register Lights

The car station floor buttons shall become individually illuminated as the button for the desired floor is pressed, advising subsequent passengers of calls that have been registered.

3.33.2 Corridor Call Register Lights

Each corridor push button fixture shall contain lights which will illuminate when pressed to indicate that a call has been registered for the corresponding direction of travel.

3.33.3 Car Position Indicator

A pop-in type position indicator shall be furnished in the cab over the entrance. Indications corresponding to each floor served, shall be illuminated from the rear by individual lights. Only one indication shall be illuminated at one time. The change from one floor to another shall be instantaneous and shall be accomplished approximately midway between landings.

3.33.4 Corridor Position Indicator

- A. A horizontal corridor position indicator shall be installed over the corridor entrance at the main floor to indicate the position of the elevator in the hoistway. The cover plate shall be stainless steel and contain indications for each floor served. Each indication shall be illuminated from the rear.

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B. The lights shall be enclosed in individual light tight compartments and arranged so that only one indicator will illuminate at a time. The change of illumination shall be instantaneous and shall be accomplished approximately midway between floors.

3.33.5 Car Lantern

A car lantern shall be provided in each jamb of elevator. The lantern shall illuminate to indicate the direction of travel of the elevator.

3.34 SPECIAL SERVICE FEATURE

A keyed switch shall be provided in the car station to initiate building service operation. When turned to the service position, all previously registered car calls shall be cancelled, permitting the car to be taken directly to any floor by pressing the corresponding button. Upon arrival at the floor, the doors shall open and remain open until another car call is registered or until the key operated switch is returned to the normal position.

3.35 EMERGENCY OPERATIONS - FIRE

The elevator shall be arranged to operate in accordance with the 1973 supplement to ANSI-A17.1, Rule 211.3, without smoke sensor provisions.

3.36 ACCEPTANCE

Acceptance of the completed Work shall include Architect receiving all submittals and all Work performed to the satisfaction of the Architect.

END OF SECTION 3

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APPENDIX 3A

EDISON DRAWING LIST

APPENDIX 3A

EDISON DRAWING LIST

<u>Drawing No.</u>	<u>Title</u>
5157634	Partial Site Plan
5157635	Floor Plan
5157637	Section Drawing
5159242	Electrical Symbols List, Lighting Fixture Schedule and Miscellaneous
5159243	First Floor Lighting, Power and Communication Plans
5159244	Second Floor Lighting, Power and Communication Plans
5133451	Plans and General Notes
5133454	Sections and Details
5133455	Sections and Details

END OF APPENDIX 3A

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SOUTHERN CALIFORNIA EDISON COMPANY
Rosemead, California

PROPOSAL REQUIREMENTS

SPECIFICATION 40-0105

FURNISH AND INSTALL
ONE PASSENGER ELEVATOR
SOLAR ONE GENERATING STATION

Part A
Information With Proposal

A.1 SCOPE

Bidder shall comply with all provisions 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 Section 1 of the Specification. Any proposal received with such substitution shall be considered nonresponsive and be subject to rejection.

All proposals submitted by bidders, 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.

A.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, Edison-furnished equipment and services, 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 Buyer. Notification of the initial Jobsite visit shall be made through the Buyer.

A.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 40-0105
Control Bldg. Elevator
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 completion dates.

A.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.

A.5 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 provide evidence that minority/small business subcontractors have been solicited for subcontract work, if such work is required by the Specification.

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

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

A.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.

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PROPOSAL REQUIREMENTS

A.7 SUPPLEMENTAL INFORMATION

Bidder shall furnish the following supplemental information as part of its proposal:

Maximum power demand at 480 volts, 3 phase, will be _____ kVA.

A.8 DRAWING AND DATA SUBMITTALS WITH PROPOSAL

The drawings and documents which are required to be submitted with the proposal are listed in Table A-1, Proposal Documentation Submittal List, that follows.

END PART A

SPECIFICATION 40-0105
Control Bldg. Elevator
Solar One

Bidder _____

Date _____

PROPOSAL REQUIREMENTS

Table 4-1

PROPOSAL DOCUMENTATION SUBMITTAL LIST

ITEM	DESCRIPTION	QTY.	FORM
1.	Equipment base details and requirements.	1	R
2.	All design loadings to elevator design.	1	N

Form Legend: N - Nonreproducible
R - Reproducible
M - Microfilm

SOUTHERN CALIFORNIA EDISON COMPANY
Rosemead, California

PROPOSAL REQUIREMENTS

SPECIFICATION 40-0105

FURNISH AND INSTALL
ONE PASSENGER ELEVATOR
SOLAR ONE GENERATING STATION

Part B
Commercial Information

This Part B shall be individually stapled or clipped for easy removal from the balance of the proposal.

B.1 PRICES

Bidder shall submit a fixed price quote including all taxes.

GRAND TOTAL PRICE for performing all the Work and all provisions of the Specification:

\$ _____
(Figures)

_____ Dollars
(Words)

B.1.1 Base Bid Breakdown

The following items represent an allocation of the Grand Total Price and shall not be used for any adjustment of that price.

<u>Item No.</u>	<u>Description</u>	<u>Price</u>
1.	<u>Cost of Elevator Only</u>	\$ _____
2.	<u>Cost of Installation</u>	\$ _____
3.	<u>Cost of 12 month maintenance</u>	\$ _____

B.2 TERMS OF PAYMENT

Bidder shall state the specific terms of payment proposed, and a schedule of such payments. If specific terms are not proposed, Edison may designate "net 30 days" as applicable.

SPECIFICATION 40-0105
Control Bldg. Elevator
Solar One

Bidder _____
Date _____

PROPOSAL REQUIREMENTS

B.3 WORK SCHEDULE

The Work shall be completed on _____, as specified in Section 2.

B.4 LABOR CONTRACTS

Bidder shall list its present major labor contracts and the date of expiration for such contracts.

Contract	Date
Contract	Date

B.5 PROPOSAL EXPIRATION DATE

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

B.6 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 40-0105
Control Bldg. Elevator
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. (STMPO 494) DOE/SF/10501-017
Date of Report June 1980
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: **Furnish and Install Control Building Passenger Elevator 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 So. Calif. Edison Co.
P.O. Box 800
Rosemead, CA 91770

6. Remarks: _____

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