

Purchase Request, 117L

WDTCOP

WDTR

4 Sep 56
Lt Col Riepe/eh/1344

1. It is requested that a purchase request be prepared for the procurement of the work described in the attached Exhibit A, "Statement of Work, 117L".
2. This procurement is submitted in accordance with Headquarters, Air Research and Development Command SDD 117L, 17 August 1956, "ARDC Systems Development Directive Advanced Reconnaissance System".
3. This system is being funded under line item 621-117L. FY 57 funds available for the initiation of this program are \$3,000,000.
4. The maintenance of special security instructions on information relating to development progress, system status, and planned operational capabilities is directed by the ARDC. A Master Security Classification Guide for WS 117L (DD Form 254) is attached. A roster will be maintained by the Assistant for WS 117L of individuals whose position requires overall knowledge of the sensitive aspects of the 117L development program. "Need-to-know" of any individual requesting information on WS 117L will be determined by referral to this roster.
5. Special instructions to the buyer:
 - a. It is requested that the contractor submit a tabular budgetary planning schedule as part of his proposal. The schedule is to reflect, on a quarterly basis through the end of the contract, detailed estimates, by subsystem and subcontract, the funds required by program, (i.e., 600, 100, etc.) and series, (i.e., 620, 150, etc.)
 - b. It is requested that the proposal show definitive milestones, to be accomplished during the first year of this program. These milestones shall be broken down by subsystem and program and include such items as: scheduled starting and completion dates, development hardware schedules, the dates on which government furnished equipment must be provided, the dates by which industrial facilities are required, the dates on which the contract items will be delivered to the government, the dates on which decisions on courses of action must be made, and other significant phasing and timing points.

DOWNGRADED AT 12 YEAR
INTERVALS; NO AUTOMATICALLY
DECLASSIFIED. DOD DIR 5200.10

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[REDACTED] [REDACTED]
WDTR, COMMENT No. 1 cont'd, Subject: Purchase Request, 117L

6. The present contract between the U. S. Air Force and the Lockheed Aircraft Corporation (AF 33(616)-3105) expires 30 September 1956. It is requested that the new contract be initiated to be effective as of 1 October 1956.

SIGNED

2. Incls:

1. Master Security Classification
Guide (Uncl) 3 cys (Omitted) . . .

2. Statement of Work 117L (SECRET)
5 cys.

FREDERIC C. E. ODER
Lt Colonel, USAF
Assistant for WS 117L
Technical Operations

STATEMENT OF WORK - 117L

ITEM I: The Lockheed Aircraft Corporation, Missile Systems Division shall plan and conduct a program of research and development designed to accomplish the objectives outlined in Western Development Division Development Plan, WS 117L, dated 2 April 1956. This program shall include all phases of effort, such as study, review, evaluation, design, (i.e. breadboard, experimental and production prototype models) laboratory test, flight test and design refinement. These phases of effort shall include work on all subsystems and programs described in Tab 1, "General Design Specification" of the WS 117L Development Plan referenced above. The results of this work shall be incorporated in reports to be submitted as required in Item VIII.

The SM 65 less nose cone, certain standard stock items to be determined at a later date, government test facilities and services, and the nuclear auxiliary power subsystem will be considered government furnished equipment.

ITEM II: The work described in Item I will result in criteria which will define those elements of the weapon system described in Development Plan WS 117L and which, when combined with the criteria developed by subcontractors, will provide complete definition of the weapon system. Criteria will be adequate to provide for detail design of all elements of the programs described in Tab 1, "General Design Specifications, Part I B.3, programs I through VIII; and all subsystems described in Tab 1, Part II, Description, Paragraph A through K, except that excluded in Item I.

The criteria established are to include specifications which provide descriptions and performance and physical standards for each article of each element. These specifications are to be revised at four-month intervals throughout the life of the contract. Each issue of each specification is to be submitted for verification of its compatibility with the weapon system. Specifications are to be in accordance with MIL-S-8048, 28 November 1952, "Requirement for Preparation of Pilotless Aircraft Weapon System Specification", and MIL-S-8169, 5 March 1953, "Requirements for the Preparation of Guided Missile Model Specifications". The final issue of each specification is to incorporate the provisions of MIL-W-7622, 1 August 1952, "General Specification for Pilotless Aircraft Systems", and MIL-N-8555, 31 December 1952, "General Specification for Design and Construction of Guided Missiles", except for deviations as may be established by the procuring contracting officer. Data submitted shall consist of one (1) reproducible copy and five (5) blue-line print copies.

ITEM III: Perform detail design and carry out detail design revisions using the criteria produced under Item II to result in drawings and other manufacturing information.

a. The drawings and manufacturing information are to be produced for the fabrication of the articles which are to serve as experimental equipment to be used for the conduct of the test program of Item V.

[REDACTED] [REDACTED]

b. Contractor shall furnish engineering data in accordance with (MOPT Exhibit) covering all articles designated in Item 1.

ITEM IV: Define completely the requirements, including performance standards, modification and physical installations details of the booster system for the air vehicle designed under Item III. The definition is to be adequate to assure complete compatibility of the SM 65 less nose cone as a booster subsystem and the air vehicle designed under Item 3 above. Design compromises which require modification of the government furnished booster shall be subject to the approval of the Air Force.

The contractor shall furnish data which is the initial definition of the interface function of the 117L system (s) and the WS 107A-1 booster. Space availability including envelope dimensions, structural attachment provisions, wt., center of gravity location, external power availability and limitations and other design information necessary to insure compatibility of WS 117L to the SM 65 will be provided.

Contractor shall furnish revised issues of data defining the requirements as necessary. Data shall consist of one (1) reproducible direct-reading Vandyke in accordance with current issue of Spec. MIL-D5480, and five (5) blue-line print copies.

Contractor shall furnish a final issue of data defining the requirements for each program as related to the weapon systems as finally established under Item III.

ITEM V: Fabricate and test experimental articles of the system and subsystems in accordance with the plan established under Item I, and the criteria and design specifications established under Items II, III and IV. Provide factory support work and operational and maintenance supply services. Provide instrumentation and data recording equipment and ground equipment articles except for that supplied as government furnished property. Operate and maintain instrumentation and data recording equipment and articles of ground equipment. Perform data reduction and analysis. Provide engineering service at the test site and engineering liaison as necessary.

ITEM VI: The contractor will notify the procuring contracting officer of his intention to initiate any study or engineering development by sub-contract, or the procurement of any major item of equipment costing over \$25,000. This notice will be accompanied by a proposed specification and/or work statement, together with a list of proposed sub-contractors. Unless advised to the contrary by the procuring contracting officer in thirty (30) days, the contractor may proceed to obtain bids. Final selection of the sub-contractor will be approved by the Western Development Division and the procuring contracting officer. Placement of a sub-contract shall be governed by the provisions of ASPR 7-203.8

[REDACTED]

Requirements for standard item of Air Force equipment will be G.F.P.. The contractor shall make these requirements known to the procuring contracting officer with model specifications, modification specifications and number required.

ITEM VII: Program Management - The success of this program demands a maximum joint effort by industry, science and the military - and in particular a broad industrial base will be required. It is necessary that an unusually competent military technical group retain management responsibility and provide overall management for the program. The Western Development Division, Air Research and Development Command, Ballistic Missiles Office has been designated to provide necessary management control. This team will provide the technical group which will, with the assistance of service and consultants from the Air Research and Development Command center, and others as required, be responsible for over-all technical direction of the Lockheed Aircraft Corporation as the Prime System Contractor WS 117L.

ITEM VIII: The reports required of the contractor will be of three categories: Monthly, Semi-annual and Special. Specific report format, where required, will be followed by the contractor according to samples which appear in this exhibit. Frequency of each report, and total number of copies required are summarized below:

<u>Report</u>	<u>Para</u>	<u>Frequency</u>	<u>No. Copies</u>
I. MONTHLY REPORTS			
Technical Program Report	I A	Monthly	<u>50</u>
Management Information Report	I B	Monthly	<u>10</u>
II. SEMI-ANNUAL REPORTS			
Technical Program Report	II A	Semi-annually	<u>50</u>
Management Information Report	II B	Semi-annually	<u>10</u>
III. SPECIAL REPORTS			
Facility Master Plan Report	III A	One time + as required	<u>25</u>
Data and Support Requirements Report	III B	One time + as required	<u>15</u>
Initial Funding Report	III C	One time + as required	<u>10</u>
Initial Bibliography	III D	One time + as required	<u>AS STATED</u>
Final Report	III E	One time	<u>AS DETERMINED</u>
Film Report	III F	As required	<u>AS STATED</u>
Detail Weight + Balance Report	III G	As required	<u>10</u>

<u>Report</u>	<u>Para.</u>	<u>Frequency</u>	<u>No. Copies</u>
III. SPECIAL REPORTS (continued)			
Coordination Letter Reports	III H	As required	<u>AS STATED</u>
Red Flag Report	III I	As required	<u>AS STATED</u>
Other Reports	III J	As required	<u>AS DETERMINED</u>
Exchange of Reports	III K	As required	<u>AS STATED</u>

All reports listed above, except Red Flag Reports and Film Reports will be addressed to:

Commander
Western Development Division
ATTN: WDSIT
P.O. Box 262
Inglewood, California

Red Flag Reports, as described in Section III-I, will be addressed to:

Commander
Western Development Division
Inglewood, California

Film Reports, as described in Section III F, will be addressed to:

Commander
Western Development Division
ATTN: Pluterial Services Office
P.O. Box 262
Inglewood, California

All reports will have attached as an addendum a distribution list of that report.

In the event that certain reports should be hand-carried to this headquarters, these reports should be delivered to WDSIT for distribution.

I. MONTHLY REPORTS

A. TECHNICAL PROGRAM REPORT

1. As of Date: Unless otherwise specified, close of last working day of each month.
2. Date Report Due: On or before the 15th of the following month. Report to be mailed.
3. No. of Copies 50

4. Sections of Report:

a. Summary Progress Information

- (1) Description of Contents: The purpose of this section is to provide the program management with technical progress information.
- (a) The report should be a brief, written report of significant program progress during the preceding thirty (30) days. The scope of this report includes the contractor and his sub-contractors associated with the program.
 - (b) Particular attention should be given to reporting progress on major development milestones.
 - (c) "Red Flag" information, described in paragraph II-I should be confirmed and detailed if applicable to the technical areas; if applicable to the management information areas it should be included in that report.
 - (d) Any known areas of potential technical difficulty should be reported, explained, and the course of action to be taken indicated or requested.
 - (e) A separate section will be devoted to the subject of ground support equipment. Progress, problem areas, technical difficulties, requests for assistance and hardware deliveries will be covered as a minimum.
 - (f) Progress on the reliability program specified in paragraph II.A. will be reported.
 - (g) In order that the contents of this section may be easily and logically separated, the technical progress information will be divided into sub-sections, and each sub-section will correspond to a sub-system of WS 117L. These sub-systems are as follows:

1. Spaceframe
2. Propulsion
3. Auxiliary Power
4. Guidance
5. Control
6. Visual Reconnaissance
7. Ferret Reconnaissance
8. Infrared Reconnaissance
9. Ground-Space Communications
10. Data Processing and Intelligence Dissemination

- [REDACTED]
- (2) Format: No formal format has been established, but standardization from one report to the next is desired.

Weight and Balance Status

- (1) As of Date: Unless otherwise specified, close of last working day of each month.
- (2) Description of Contents: The purpose of this section is to provide the program management with continuing weight and balance information for all airborne components developed by the contractors under terms of the contract as well as provide interchange of information among associate contractors for design purposes.
- (a) The report will be prepared in accordance with Mil-Std-176 which is a part of Mil-A-3947, except that the submittal will be on a monthly instead of bimonthly basis.
- (b) If there is no change from the previous report, a statement to that effect will be submitted under Weight and Balance Status in the Monthly Technical Report.
- (3) Format: Explanation of weight and balance information will be contained in the Weight and Balance Section of the Monthly Technical Report. Items will be identified according to missile series.
- (4) Distribution: In addition to normal distribution of the Monthly Technical Report, copies of the forms required by Mil-A-3947 together with any explanation required will be sent to associate contractors as directed by the contracting officer.

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c. Facility Progress Information

- (1) Description of Contents: The purpose of this section is to provide the program management with progress, and in particular, lack of progress information concerning all facility areas and items listed in the Facility Master Plan (refer to Paragraph III.A, "Facility Master Plan Report").
- (a) The report will be a brief, narrative summary to indicate and explain all facility areas and items which have fallen behind the program schedule. These items should be related to the facility milestones of the Facility Master Plan, as explained in paragraph III.A.4.b. The report will include a statement that all other facility areas and items are on schedule, if applicable.
- (b) This section will set forth any potential delay areas, any assistance that might be rendered by the WDD, and any recommended corrective action proposed by the contractor in order to meet program schedules.
- (c) The report will indicate whenever total facility expenditures to date, or those contemplated within 90 days, will exceed programmed commitment sums. This date is informative only and not in lieu of formal action under the contract to acquire additional funds.
- (2) Format: No special format required. Standardisation from one report to the next is desired.

d. Electrical Power Requirement Section

- (1) Description of Contents: The contractor shall submit as part of the monthly program report complete information on electrical power required for all airborne items. Power required for instrumentation for test flights (as distinguished from power required by the basic equipment) shall be separately identified and totaled. If there is no change in the situation reported in the previous month, a statement to this effect may be submitted in lieu of a new action. The information to be reported shall include such items listed below as are appropriate as well as additional requirements that must be met by the power source:
- (a) Nominal quantities of a.c. and d.c. power.

- (b) Required voltage and frequency.
- (c) Required voltage and frequency regulation.
- (d) Load power factor.
- (e) Permissible ripple and harmonic content.
- (f) Anticipated transient peak loads.
- (g) Duration of transient loads.

B. MANAGEMENT INFORMATION REPORT

1. As of Date: Close of last working day of each month unless otherwise specified.
2. Date Report Due: (in or before the 15th of the following month. Report should be mailed.
3. No. of Copies: (0)
4. Sections of Report:

a. Funding Status Information

- (1) Description of Contents: Effective with the month this Reports Clause is received, submit a monthly Funding Status Section in tabular form to reflect the current month's invoicing commitments, and the cumulative total of invoices and uninvoiced commitments at the end of the month covered by the report. These reports will include a graphic illustration of the total accumulative costs with the cost as the ordinate and time as the abscissa. A dotted line shall represent the anticipated expenditures terminating in a point which represents total contract costs. A solid line shall be drawn connecting points established as actual expenditure as of the end of the month covered by the reporting period.
- (2) Format: The format for the report will be identical to that outlined for any one month in Sample I, and will include headings as illustrated.

b. Manpower Information

- (1) Description of Contents: This monthly status report will contain the following information:
 - (a) Number of working days during this reporting period.
 - (b) Scheduled hours per work day (i.e., 8 - 8 1/2 - 9).
Per work week (i.e., 40-45-47.5).

[REDACTED] [REDACTED]

(c) Total personnel engaged in work by contract within the following categories (this is a total figure and will include personnel reported in paragraphs (k) and (n) below):

1. Key Scientific and Engineering personnel will be listed by name and category. Those persons who are engaged in Scientific or Technical duties which require formal education or its equivalent such as Aeronautical Engineers, Electronic Engineers, Chemists, etc., will be listed by total only.
2. Engineering Support, e.g., technical stenographers, draftsmen, etc., (total only);
3. Management and Administrative: (total only).
4. Shops and Production: (total only).
5. Other (total only). This includes any personnel not included in the above 4 categories who are directly chargeable to the project.

(d) Total personnel employed on the project by shift:

1. First Shift.
2. Second Shift.
3. Third Shift.

(e) Project overtime - total man hours per month broken down by:

1. Scientific and Engineering.
2. Engineering Support
3. Management and Administrative.
4. Shops and Production.
5. Other.

(f) Labor Shortage Areas (such as engineers, draftsmen, riveters, etc.) and what action is being taken to alleviate shortage areas.

[REDACTED]

(g) Multi-shift Information:

1. If a multi-shift operation is not in effect, do you contemplate establishing such a shift?
2. Why is such a multi-shift not now in effect?
3. Would a multi-shift operation expedite the progress of your contract?
4. If you establish or expand a multi-shift operation, do you foresee major manpower procurement problems?
5. If so, in what areas.

(h) Overtime Information:

1. Is overtime required because of a manpower shortage?
2. In what skills or professions?

(i) Other Personnel Problem Areas. This should include a recapitulation of possible Red Flag items such as strikes, and other problem areas of less immediate urgency.

(j) How many sub-contractors do you have engaged in this program? (Under sub-contractors do not include vendors).

1. What is the estimated number of sub-contractor personnel engaged in this program?

(k) Number of personnel located at the Air Force Missile Test Center engaged in work on the project:

1. Total engineering (professional).
2. Engineering support.
3. Total administration and other.

(m) Identify, in total only, the number of personnel from your sub-contractor organizations at AFMTC (if any).

[REDACTED]

- [REDACTED] [REDACTED]
- (n) If you have personnel assigned to other Air Force facilities, such as Edwards Air Force Base and Holloman Air Force Base, list the information in paragraph (k) and (m) for that facility.
- (2) Format: Although no specific report form is used, the report should follow the same sequence as the requested information above.

c. Material Information.

(1) Description of Contents:

- (a) List any shortage of material requirements which will adversely affect the progress of this project, and for each shortage give the following information:

1. Whether OFAE, GFP, GFP.
2. Quantity of items required to prevent program delay.
3. Delivery date required to prevent program delay.
4. Source of supply.
5. Requisition number or purchase order on which requested.
6. Resume of action taken to expedite delivery.
7. Recommended WDD action or assistance desired.

- (b) Transportation problems where commercial transportation sources will not provide timely delivery.

1. Description of cargo including weight and dimensions.
2. Points of origin and destination.
3. Movement schedule required.
4. Resume of action taken.
5. Recommended WDD action or assistance desired.

[REDACTED] [REDACTED]

(c) Communications bottlenecks contributing to program delay.

(2) Format: No specific format has been established. Standardization from one report to the next is desired. If no shortages in material or no transportation problems exist, a negative report should be made.

d. Security Information

(1) Description of Contents:

(a) List specific security problems, present or anticipated in the following areas:

1. Personnel clearances.
2. Facility clearances.
3. Classification
4. Visitor control
5. Miscellaneous security problems.

(b) Statement of action that has been taken to solve the specific security problems, including coordination with and assistance requested from Air Force plant representatives.

(c) Recommendations for appropriate solution to the problem.

(2) Format: No specific format has been established. Standardization from one report to the next is desired.

e. Budget Program

(1) As of Date: This section of the report will only be included in the monthly reports for March, June, September and December. The report will be as of the last working day for the particular month of the report and will include data for the entire period since the previous report.

(2) Description of Contents: Submit a tabular budgetary planning schedule to reflect estimates in detail on a quarterly basis through the end of the contract. The summary shall include estimates for the complete system and shall also set forth data for each significant item of the system by subsystem and by sub-contractor.

[REDACTED] [REDACTED]

(3) Format: Schedules will be submitted similar to the format set forth in Sample III.

II. SEMI-ANNUAL REPORTS

A. TECHNICAL PROGRAM REPORT

1. As of Date: As of close of last working day of June and December of each calendar year.
2. Date Report Due: Thirty days following the end of the period reported upon. Report to be mailed.
3. No. of Copies: 50
4. Description of Contents: The purpose of this report is to provide the program management with formal planning and progress information concerning the contractor's task.

a. Technical Planning Information

- (1) This section of the Semi-annual Program Report will describe the complete program as currently planned. It should follow an outline based upon the work statement contained herein, and will be expanded to include all tasks and sub-tasks required to accomplish the development and test program. Scheduled starting and completion dates, development hardware schedules, the dates on which Government furnished equipment must be provided, the dates by which industrial facilities are required, the dates on which contract end items will be delivered to the Government, the dates on which decisions on courses of action must be made, and all other significant phasing and timing points, should be included in the report.
- (2) In addition to the planned technical approach to accomplishment of tasks and sub-tasks, the contractor's approach (both actual and planned) to achieving reliability of those elements for which he is responsible should be stated. If not previously stated, or if a change has occurred, the report should include a discussion of the reliability philosophy used in planning the contractor's over-all program, a discussion of concepts for establishing design and test criteria, a discussion of the controls devised to assure the systematic gathering and recording of reliability data and test results, and a discussion of controls or organizations for assuring the findings of reliability groups are fed back into the development program in a

[REDACTED] [REDACTED]

timely and effective manner. It is assumed, that once reported, reliability data in the semi-annual report will consist of changes to the contractor's approach. Progress will be reported in the monthly Technical Report.

b. Technical Progress Information

- (1) This section of the Semi-annual Program Report should indicate by reference to the work statement and the tasks and sub-tasks as presented in the general planning information section of this report, the scope of work performed to date, results attained, significance of results, shortcomings, and deficiencies. This section should also include summary information pertaining to coordination and/or visits with associated prime contractors in connection with matters significant to the contract or the over-all weapon system.
- (2) Particular attention should be given to reporting progress on major development milestones, such as the "freezing" of engineering designs, completion of mock-ups, solution of major technical problems, delivery of sub-assemblies as well as complete assemblies, results of captive and environmental tests, development of new fabrication techniques, advancement in the "state-of-the-art", and any other similar milestones of progress.

c. Graphic and Tabular Presentations. Graphic presentations are encouraged for use in the Semi-annual Program Report. However, each graph should be supplemented by a tabulation of data presented graphically. Graphic presentations will be used by top management at WDD for reviewing contractor's planning and progress information. The supplemental tabular data is needed to translate the data onto control charts maintained at WDD. All presentations should be clearly labeled and explained. Charts should be designed and drawn using accepted standard techniques for graphic and tabular presentations.

5. Format: No special format required except as discussed above. However, standardization from one report to the next is desired.

[REDACTED]

B. MANAGEMENT INFORMATION REPORT

1. As of Date: Information will be reported as of 30 June and 31 December of each year or at any other time a significant change in the projection occurs.
2. Date Report Due: On or before the 15th of the following month. Reports to be mailed.
3. No. of Copies: 10
4. Sections of Report:

a. Revised Fund Projection Information

- (1) Description of Contents: Submit a revised fund projection of commitments and invoices, showing the projection on a monthly basis for the next twelve months and on a quarterly basis from that point to the end of the contract. Any noticeable changes in the projection will be fully explained by narrative statement.
- (2) Format: The information will be presented in format similar to that illustrated in Sample IV.

b. Manpower Information

- (1) Description of Contents: (Total Manpower Projection)
 - (a) What is personnel build-up or decrease by month for the next twelve (12) months by categories of personnel:
 1. Scientific and Engineering.
 2. Engineering Support.
 3. Management and Administrative.
 4. Shops and Production.
 5. Other.
 - (b) Explain trend and report reason for any significant personnel decrease.

[REDACTED] [REDACTED]

(2) Description of Contents: (Test Base Manpower Projection)

(a) A separate manpower forecast is required of contractor personnel to be located at Air Force bases listed in paragraphs (b), (c) and (d) below. The personnel reported in this section will be included in forecast in paragraph (1) above. The projection will cover a three year period from date of report or until testing at the Air Force Station is completed, whichever is shorter. The projections will be on a quarterly basis for the years reported, as of the end of March, June, September and December, broken down into the following categories:

1. Permanent Party:

a. Scientific and Technical.

b. Engineering Support.

c. Other.

2. Visitors: Total estimated during quarterly periods reported.

(b) At Air Force Missile Test Center:

1. At Patrick Air Force Base.

2. At Cape Canaveral.

3. At Down Range Stations.

(c) At Air Force Flight Test Center:

1. At Edwards Air Force Base.

2. At WRETS.

(d) At Holloman Air Development Center

III. SPECIAL REPORTS

A. FACILITY MASTER PLAN REPORT

1. As of Date: Encompasses length of contract.
2. Date Report Due: As soon as practical, but not later than 90 days after receipt of contract or authority to proceed. To be mailed or hand-carried.
3. No. of Copies. 25
4. Description of Contents: The purpose of this report is to provide the program management with complete requirements for new construction in support of the task outlined in the contract. All facilities should be included, whether contractor-furnished or proposed to be Government-furnished. The plan should clearly reflect the distinction between these two sources.
 - a. The Facilities Master Plan will provide detailed data for each major facility component, such as a test stand, a laboratory, a pilot line manufacturing facility, a fabrication department, land, etc.
 - b. The date its use is required will be stated for each major identifiable facility item. Intermediate progress "Milestone" dates, such as land actions, design, construction time, etc., will be indicated. The following ten milestones are used by WDD, and provided for your consideration:
 - (1) Requirement justification.
 - (2) Method of acquisition and/or selection of contractor.
 - (3) Preparation of criteria and/or formal application.
 - (4) Letter facility contract.
 - (5) Selection of A and E.
 - (6) Preliminary drawings.
 - (7) Final drawings.
 - (8) Construction contract awarded.