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NASA'S QUALITY AND EXCELLENCE AWARD 1992 (MASA-TM-107834) GEURGE M. LOW TROPHY <u>N9</u>2-24901 NASA'S QUALITY AND EXCELLENCE AWARD, 1992. APPLICATION GUIDELINES: SMALL BUSTNESS (NASA) 29 p CSCL 05A Unclas G3/81 0089698 **APPLICATION GUIDELINES** SMALL BUSINESS

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This trophy is awarded in memory of George M. Low, who greatly contributed to the early development of NASA Space Programs during his 27 years of Government Service.

The medallion, which is embedded in the shape of an Apollo Command Module, has alloyed in it a portion of an artifact flown to the moon and back on Apollo 11 the first manned lunar landing mission July 16-24, 1969.

PREFACE

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The George M. Low Trophy is the premier quality and productivity award in the aerospace industry. It recognizes outstanding achievements that go far beyond meeting minimum or contract standards - it acknowledges excellence in all areas.

However, the George M. Low Trophy program offers applicants much more than the opportunity to receive a prestigious award. It offers a roadmap for self-evaluation that will identify both strengths and weaknesses in an organization's management attitudes and processes. Previous applicants report the effort of applying is well-rewarded.

For NASA, the aerospace community, and the Nation to maintain our position as leaders in space and technology, continuous improvement must be an integral part of our organizational culture. Completing the George M. Low Trophy application process is an important step toward competitiveness and ability to respond to customer needs.

George A. Rodney Associate Administrator, Office of Safety and Mission Quality

MESSAGE FROM THE ADMINISTRATOR

Aim for excellence and reward those who persevere. These are the tenets for the NASA George M. Low Trophy award process. In 1990, the NASA Excellence Award for Quality and Productivity was renamed for Mr. George M. Low, a former NASA Deputy Administrator whose contributions to our Nation's space program exemplify a quality philosophy that was far ahead of its time.

The current NASA approach to quality management reflects and builds on the precepts conceived by this distinguished scientist and educator over 30 years ago. With the George M. Low Trophy, we continue his vision of excellence by recognizing those organizations that demonstrate a singular commitment to quality.

This award acknowledges the pivotal role of our contractors, subcontractors, and suppliers in meeting the exacting demands of the Nation's space program. Through the rigorous award process, we communicate to the organizations the Agency's equally demanding criteria for quality and productivity. These NASA requirements help to maintain the technology leadership and world-class performance of the American aerospace industry. The George M. Low Trophy is awarded to the companies, both large and small, whose programs meet or exceed these expectations.

The foresight that George Low exhibited so consistently is a part of our heritage at NASA that we are proud to honor. The measurable world-class quality and productivity of our industry partners clearly show the value of translating foresight and technological skill into excellence. We want to encourage all eligible businesses, large and small, to participate in the George M. Low Trophy award process.

Richard H. Truly Administrator

TABLE OF CONTENTS

	Preface	1
	Message from the Administrator	2
	Table of Contents	3
I.	Introduction	4
II.	Candidate Eligibility General (Small Business)	5
III.	Selection Process Milestone Schedule Process Participants	6 7
IV.	Nomination Letter Instructions Questionnaire	8 10
V.	Application Report Instructions Specifications Criteria Summary Criteria Elements Scoring Guidelines	11 12 14 15 22
VI.	Site Visits	23
VII.	Award Recipient Selection	23
VIII.	Debriefings	23
IX.	Recognition Award Recipients Award Finalists	24 24

I. INTRODUCTION

The George M. Low Trophy is awarded to current NASA contractors, subcontractors, and suppliers in the aerospace industry who have demonstrated sustained excellence and outstanding achievements in quality and productivity for three or more years. The objectives of this award are to:

- increase public awareness of the importance of quality and productivity to the Nation's aerospace program and industry in general;
- encourage domestic business to continue efforts to enhance quality, increase productivity, and thereby strengthen competitiveness;
- provide the means for sharing the successful methods and techniques used by the applicants with other American enterprises.

The award may be given to as many applicants as demonstrate the level of excellence required over the period of time specified.

The award program is managed by the NASA Quality and Productivity Improvement Programs Division and is jointly administered by NASA and the American Society for Quality Control.

The purpose of having separate criteria for small business is to acknowledge the difference in documentation and availability of resources between large and small business. However, the best organizations, irrespective of size, will already have processes that address all of the major criteria areas described in this Guideline document. The degree of complexity and sophistication of these processes will vary with the size and requirements of the organization.

Prospective and active participants are encouraged to contact either the NASA or ASQC program office to obtain process or criteria clarification.

II. CANDIDATE ELIGIBILITY

The candidate is defined as the facility/organization having the NASA contract/subcontract and must meet all of the following criteria:

A. GENERAL (Small Business)

All NASA contractors, subcontractors, and suppliers are eligible irrespective of size or the nature of their product/service with these limitations:

- The applying organization must be within the United States.
- The applying organization must conform to paragraph 19.102 of the Federal Acquisition Regulations.
- Aggregate sales to NASA or prime contractor for 1989, 1990, 1991 should exceed \$250,000 in each of the three years. Applicants may also qualify if they meet all other criteria and have at least 50% of their total sales with NASA.
- There should be a minimum of 25 full-time employees, with at least one-third of the employees engaged in NASA work.
- Applicants are considered as the facility/organization with the NASA contract or subcontracts, rather than the entire corporation.
- The applying organization should function as a self-sustaining profit center with a majority of the resources at one location.
- Small divisions of large corporations are presumed to receive corporate support and/or resources and thereby qualify as large businesses.

III. SELECTION PROCESS

MILESTONE SCHEDULE

October, 1991

Award application guidelines available.

December 2, 1991

Candidate submits nomination letter to American Society for Quality Control (ASQC) with brief statement of eligibility compliance.

January 2, 1992

Evaluation Committee completes review of candidate. This includes review by field installation(s) and prime contractor(s) if candidate is subcontractor. Candidate notified of Committee's decision.

March 2, 1992

Successful applicant submits application report (35-page maximum) to ASQC.

May 1, 1992

Evaluation Committee reviews application report to select finalists based on whether candidates' organizational commitment and accomplishments meet the award standards.

June-August, 1992

On-site visits to finalists' organizations.

August, 1992

Evaluation Committee meets to review results of on-site validation visits and prepare findings for review by the NASA Total Quality Management (TQM) Steering Committee.

October, 1992

Selection of annual award recipient(s) made by NASA Administrator based on recommendations of the TQM Steering Committee.

November, 1992

Finalists recognized at reception at Ninth Annual NASA/Contractors Conference. NASA Administrator announces award recipient(s).

November-December, 1992

Presentation of award by NASA Administrator in special ceremony held at recipients' location.

PROCESS PARTICIPANTS

A. Evaluation Committee Membership

Headquarters Representatives Field Center Representatives American Society for Quality Control Representatives Government/Industry/Academic Advisors

B. Validation Team Membership

Selected members of the Evaluation Committee and other selected representatives

C. NASA TQM Steering Committee Membership

Administrator (Chairperson) Deputy Administrator Associate Deputy Administrator Assistant Deputy Administrator Associate Administrator for Safety and Mission Quality Assistant Administrator for Procurement Comptroller Assistant Administrator for Commercial Programs Assistant Administrator for Headquarters Operations General Counsel Director of Small and Disadvantaged Business Utilization Associate Administrator for Public Affairs Assistant Administrator for Equal Opportunity Programs Associate Administrator for Exploration Inspector General Associate Administrator for External Relations Associate Administrator for Space Science and Applications Associate Administrator for Human Resources and Education Associate Administrator for Aeronautics, Exploration, and Technology Associate Administrator for Space Flight Associate Administrator for Space Operations Associate Administrator for Management Director, Ames Research Center Director, Goddard Space Flight Center Director, Johnson Space Center Director, Kennedy Space Center Director, Langley Research Center Director, Lewis Research Center Director, Marshall Space Flight Center Director, Stennis Space Center

Director, NASA Quality and Productivity Improvement Programs Division (Executive Secretary)

IV. NOMINATION LETTER

Purpose

To determine if a candidate is qualified to continue in the evaluation process. Only candidates that meet or exceed the high standards of this award and satisfy the requirements of customer satisfaction in all areas of performance, schedule, and cost will be asked to submit an Application Report.

General Instructions

Each candidate is required to submit appropriate information to permit verification by the Evaluation Committee. Written comments should be concise, specific, and address the attributes and philosophies that qualify the applicant for consideration. Forty (40) copies shall be submitted to ASQC.

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Specifications

- Pages must be standard size (8-1/2 by 11 inch).
- Printing must be standard elite type or equivalent (maximum 700-words/page).
- Reasons for award consideration (4.0) shall not exceed three (3) pages [Basic information (1.0), and eligibility compliance data (2.0), do not have limitations].

Format

Nomination Letters shall contain the following sections:

1.0 Applicant basic information

- 1.1 Name and street address of nominee (facility location applying, multiple locations so state).
- 1.2 Name, title, telephone, and facsimile number of the highest ranking member of management at the facility.
- 1.3 Name, title, telephone, and facsimile number of the award program contact.
- 1.4 Product/service furnished on all NASA contracts and type of contract.
- 1.5 Applying as a: Large Business (check one)

Small Business

2.0 Eligibility compliance

- 2.1 The number of full-time employees at the facility location, and number of these personnel engaged in NASA activities for 1989, 1990, and 1991.
- 2.2 List all NASA contract(s) and amounts billed per year (by number) for the last three years, subcontractors list prime contractor and purchase order numbers and amounts. Provide total by year and indicate what percent of total sales or billings this represents.
- 2.3 A summary of award fee ratings or other performance indicators where applicable for the last three years.

3.0 Nomination questionnaire

All questions must be answered. If a question is marked "N/A" (not applicable), the nominee must state why these activities do not relate to the operation.

Although there is not a specified level of "yes" responses, nominees may need to examine their readiness for participation in this framework.

4.0 Reason for award consideration

The nominee should summarize accomplishments and justification for being considered for the award. Instances of sustained excellence and outstanding achievements in quality and productivity should be cited using the evaluation criteria as a frame of reference for a minimum of three years prior to the date of submission (three-page maximum).

Notification of approval for applicant status

Although notification of approval for applicant status will not occur until January 2, 1992, nominees may wish to begin preparation of application reports before this date to gain the advantage of additional preparation time.

QUESTIONNAIRE

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Yes	No	N/A	
			1. Do all applicable performance ratings exceed 80% for 1989-1991?
			2. Is there a scheduling system or process that analyzes performance and verifies requirements?
			3. Are actual costs tracked and analyzed?
			4. Is the quality of goods and services monitored and tracked?
			5. Is a quality assurance program in place with a central point of contact?
			6. Is the quality of incoming materials monitored and used in purchase decisions?
			7. Is there a method for communicating lessons learned to all affected parts of the organization?
			8. Are efforts to incorporate software and automation tools significant?
			9. Is there a facility/equipment modernization plan?
			10. Are there activities to improve resource utilization and the environment?
			11. Is the commitment of top management to the total quality approach demonstrated?
			12. Are there adequate methods for multi-directional internal communication?
			13. Are training needs assessed and addressed?
			14. Is teaming used in your organization?
			15. Do recognition methods have variety relative to performance?
			16. Is there a safety program with a central point of contact?
			17. Is there an active affirmative action program with documented progress toward goals?

V. APPLICATION REPORT GENERAL INSTRUCTIONS

A. Candidates that have been verified as eligible applicants by the Evaluation Committee will be permitted to submit an Application Report. Each candidate is required to submit sufficient information so that a complete and thorough evaluation can be made by the Evaluation Committee. The application should be concise and factual and should contain, as a minimum, descriptive information to allow judgment of the overall commitment and accomplishments for the previous three calendar years and, where applicable, projections for future years.

The information in the application report must follow the sequence of the criteria elements and subelements. Each section must be identified with the corresponding element number to which it applies. The use of hard data is required where applicable or specifically requested.

B. Information requested herein must be furnished fully and completely in compliance with instructions. The information requested and the manner of submission are essential to permit prompt evaluation of applications on a fair and uniform basis.

If a criteria element does not apply, it must be addressed by indicating "not applicable" and reason(s) must be stated. However, evaluators may disallow this claim if it is determined that the element should be applicable. If evaluators concur that a criteria element is "not applicable," those points will be subtracted from the total available points. The final score will be expressed as a percentage of the total points awarded versus the total available points. Any uncertainties may be discussed with the NASA or ASQC program office.

- C. Forty (40) copies of the Application Report shall be submitted to the American Society for Quality Control. The deadline for receipt is March 2, 1992.
- **D.** A supplementary document entitled "Supplemental Requirements Document" will be provided to all organizations that selfnominate. Additional copies may be requested from ASQC.

This document provides advice on data presentation, enhancement of criteria requirements, and a perspective of what evaluators need to objectively and accurately appraise qualifications.

SPECIFICATIONS

Report sheets must be on standard size (8.5 x 11 inch) paper, with standard elite type or equivalent (maximum 700 words/page). Sheets may be printed on both sides. Application Reports shall be limited to a maximum of 35 single-sided pages. Small businesses may use fewer pages if they so desire. Dividers, covers, tab separators, title pages, table of contents, and sections A, B, and E of the required format are not counted in the page limitation.

The benefits of providing numerical data wherever possible cannot be emphasized too strongly. This allows an objective analysis and assures an equitable evaluation of all applicants. Quantifiable information should be presented in charts, graphs, or matrices to enhance perspective and depict trends.

Format

Reports shall contain the following sections in the order shown:

- A. Introduction
 - 1.0 Name and street address of applicant (facility location applying, multiple locations so state).
 - 2.0 Name, title, telephone, and facsimile number of highest ranking member of management at the facility.
 - 3.0 Name, title, telephone, and facsimile number of award report contact and alternate contact.
 - 4.0 Number of full-time on-site employees and the percentage engaged in NASA business. An organization chart should be provided depicting organizational structure.
 - 5.0 A listing of all NASA contract(s) (by number) for the last three years with the dollars billed per year on each. Vendors should list prime contractor and purchase order numbers and amounts. Include the applicable NASA center, name and phone number of technical monitor, and type of contract (e.g., Firm Fixed Price, Cost Plus Award Fee, etc.).
 - 6.0 Applying as a: _____ Large business (check one)

_____ Small business

B. Applicant Products/Services supporting NASA contracts with an overview of all of the work performed, both NASA and commercial.

C. Reporting of Accomplishments

1.0 Performance Achievements

2.0 Process Achievements

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- D. Summary of why the applicant deserves the award (include quantitative as well as qualitative data, as appropriate, to describe perceived strengths and highlight exceptional achievements). This summary is optional but will be included in page count if used.
- E. A list of acronyms and definitions shall be provided.

SUMMARY OF EVALUATION CRITERIA

FOR GEORGE M. LOW TROPHY: NASA'S QUALITY AND EXCELLENCE AWARD

Evalua	Total Points	
1.0	PERFORMANCE ACHIEVEMENTS	600
	1.1 Customer Satisfaction	
	1.1.1 Contract Performance1.1.2 Schedule1.1.3 Cost	120 50 50
	1.2 Quality	
	1.2.1 Quality Assurance (hardware/software/service)1.2.2 Vendor quality assurance and involvement1.2.3 External communication1.2.4 Problem prevention and resolution	120 50 40 40
	1.3 Productivity	
	1.3.1 Software utilization1.3.2 Process improvement and equipment modernizat1.3.3 Resources conservation1.3.4 Effective use of human resources	40 30 30 30
2.0	PROCESS ACHIEVEMENTS	400
	2.1 Commitment and Communication	
	2.1.1 Top management commitment/involvement2.1.2 Goals, planning, and measurement2.1.3 Internal communication	100 80 40
	2.2 Human Resource Activities	
	2.2.1 Training2.2.2 Work force involvement2.2.3 Awards and recognition2.2.4 Health and safety	50 50 40 40

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Note: Data and information for this three year performance window (1989, 1990, 1991) is required in all criteria areas.

1.0 PERFORMANCE ACHIEVEMENTS

1.1 Customer Satisfaction—emphasis in this element is on measurable and verifiable satisfaction of NASA and/or prime contractor requirements for overall organizational performance.

1.1.1 Contract Performance

- 1.1.1.1 Show how performance requirements are generated and communicated throughout the organization.
- 1.1.1.2 Provide information demonstrating the level of customer satisfaction trends.
- 1.1.1.3 Describe initiatives to improve value of products and services.
- 1.1.2 Schedule
 - 1.1.2.1 Demonstrate that schedule requirements have been met on a consistent basis over the three year window.
 - 1.1.2.2 Describe schedule process that ensures meeting requirements.
 - 1.1.2.3 Provide examples of responsiveness to rescheduling, and reprioritized work activities if appropriate.
- 1.1.3 Cost
 - 1.1.3.1 Demonstrate an ability to accurately and consistently forecast costs.
 - 1.1.3.2 Describe how the customer is advised of pending cost changes or cost risks in a timely manner.
- 1.2 Quality—emphasis in this element is on qualitative, quantitative, and substantiated accomplishments in both the design and delivery of quality products and services with an emphasis on continual improvement.

1.2.1 Quality Assurance (hardware/software/service)—all organizations and the various functions within them can have more than one type of deliverable to both internal and external customers. Accordingly, quality elements that relate to hardware, software, and service are relevant to most applicants. Section 1.2.1.1, Quality Assurance -General, must be responded to by all applicants, sections 1.2.1.2, 1.2.1.3, and 1.2.1.4 should be reviewed closely for applicability and addressed as appropriate.

1.2.1.1 Quality Assurance—General

- Outline the structure of the QA activities with responsibilities and staffing.
- Describe the methods used to ensure accountability at every level in the organization.

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- Document the existence of quality assurance plans and procedures.
- Document audit program and results.
- Document extent of a configuration control system used to monitor product changes, software releases, or task descriptions.
- Describe and demonstrate the quality measurement system for monitoring, tracking, and trending of relevant variables and attributes.
- Illustrate how the concept of continuous improvement is incorporated in the goals, procedures, and philosophy of the organization.
- 1.2.1.2 Quality Assurance—Hardware
 - Document how design, planning, and development yield correct form, fit, and function.
 - Describe efforts to prevent versus detect errors.
 - Provide data to show a reduction in the amount of scrap and rework.
- 1.2.1.3 Quality Assurance—Software
- Show how software life cycle phases and associated products are determined.
- Provide evidence of how software products (code, documentation, procedures) are controlled through the effective use of change control processes and security measures.
- Document that tailored software test programs are used.

1.2.1.4 Quality Assurance—Service

- Show how nonconformance avoidance is achieved through the systematic application of sound preventive doctrines.
- Provide data indicating that inspectable services involved with manufacture, processing, or maintenance show nonconformance improvement.
- Document that services are formally tracked by management to ensure a thorough, accurate, and timely completion. Demonstrate use of trend data to improve services/process activities.
- 1.2.2 Vendor quality assurance and involvement—vendors include suppliers of goods or services and subcontractors that provide personnel that work either independently or as part of an integrated workforce with applicant. Document active involvement of vendors in TQM programs.
 - 1.2.2.1 Provide trend data on quality, schedule, and cost of received products/services that support continuous improvement.
 - 1.2.2.2 Document a vendor rating and/or certification system that identifies optimum sources for procured products/services and provides feedback to correct deficiencies.
 - 1.2.2.3 Document the percentage of contract funding supporting vendor activities. Describe how information on quality improvement has been shared with vendors.
- 1.2.3 External communication—describe and demonstrate the communication process for addressing quality and performance issues with the customer and provide examples of effectiveness. Provide data that documents:
 - 1.2.3.1 Clear, concise, and factual information is exchanged and the frequency and accuracy.
 - 1.2.3.2 Methods used to ensure accuracy and timeliness of information.
- 1.2.4 Problem prevention and resolution
 - 1.2.4.1 Describe the system used for problem resolution and provide an example of how a major problem would be identified and resolved with the customer.
 - 1.2.4.2 Describe the problem resolution process and how it incorporates lessons learned in preventing recurrence.

- **1.3 Productivity**—the focus in this section is on demonstrated quantifiable increases in output per unit of invested resource.
 - 1.3.1 Software utilization—describe the techniques used to enhance information handling. Applications may include but will not be limited to the following areas (indicate number of systems/users):

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- computer-aided-design
- computer-aided-manufacturing
- computer-aided-engineering
- automation
- artificial intelligence
- integrated systems
- automated testing and calibration
- BAR coding
- inspection
- 1.3.2 Process improvement and equipment modernization applicant demonstrates commitment to process improvement by:
 - 1.3.2.1 Providing data on expended capital to improve facilities/equipment.
 - 1.3.2.2 Documenting all recommendations for spending NASA funds to achieve quality or productivity improvements.
- 1.3.3 Resource conservation—describe the strategy to optimize use of all expendable or reusable physical resources which the applicant has the ability to control or to affect usage. Areas addressed may include but are not limited to:
 - 1.3.3.1 Energy use reduction (fossil fuels, electricity, etc.).
 - 1.3.3.2 Environmental improvement initiatives.
 - 1.3.3.3 Improved utilization of resources (heat, water, etc.).
 - 1.3.3.4 How employee initiatives are encouraged (car pooling, recycling, etc.).
- 1.3.4 Effective use of human resources
 - 1.3.4.1 Demonstrate an effective and economic use of human resources by assigning qualified personnel with appropriate skill levels and skill mixes to perform tasks.
 - 1.3.4.2 Describe how effective levels of staffing are determined based on work content of required tasks via either work measurement or non-traditional techniques.

2.0 PROCESS ACHIEVEMENTS

- 2.1 Commitment and Communication—the emphasis in this section is on demonstrated leadership in establishing a quality culture. The necessary process changes to empower employees at all levels and eliminate organizational barriers to continuous improvement must be documented.
 - 2.1.1 Top management commitment to and involvement in continuous improvement—documented evidence of top management commitment, review, and involvement.
 - 2.1.1.1 Demonstrate that a long-term commitment has been stated and is in practice. Show how the commitment is communicated.
 - 2.1.1.2 Provide evidence of management leadership in TQM implementation, quality leadership, and employee empowerment.
 - 2.1.1.3 Document commitment through allocation of capital to quality and productivity initiatives.
 - 2.1.1.4 Document commitment through allocation and utilization of human resources to TQM.
 - 2.1.1.5 Demonstrate focus on ethical practices throughout the organization.
 - 2.1.2 Goals, planning, and measurement—use of meaningful goals, plans, and feedback mechanisms.
 - 2.1.2.1 Describe how program goals and objectives are established and disseminated.
 - 2.1.2.2 Describe short and long-range plans for TQM implementation.
 - 2.1.2.3 Indicate to what extent TQM goals are related to the employee performance appraisal process.
 - 2.1.3 Internal communication—demonstrated policy of open communication, vertically and horizontally, top-down and bottom-up, within the organization to build understanding, commitment, and common direction.
 - 2.1.3.1 Describe the communication methods employed.
 - 2.1.3.2 Show how effectiveness of communication is determined and describe what approaches have or might be used to remedy ineffective techniques.

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- **2.2 Human Resource Activities**—the focus here is on the quantitative evaluation of the programs and activities that are necessary to recognize the value of people to an organization.
 - 2.2.1 Training—degree of participation in initial, advanced, and refresher training and education that would lead to increasing potential of employees for greater work responsibilities and personal growth.
 - 2.2.1.1 Describe the techniques for assessing training needs.
 - 2.2.1.2 Describe the company philosophy on training and any impediments to training program implementation.
 - 2.2.1.3 Provide data on the number and types of courses, participation, contact hours, costs, etc., for these areas:
 - Job skills
 - Management/supervisory skills
 - Improvement techniques (flow charting, SPC, etc.)
 - Employee orientation
 - Education reimbursement
 - 2.2.2 Work force involvement—participation of individuals or groups (i.e., teams, circles, etc.) in building dedication, pride, and teamwork through improving the quality of products/services.
 - 2.2.2.1 Describe the evolution of the organization's approach to utilizing the talents of people via teaming and any obstacles or restrictions to full implementation of the program.
 - 2.2.2.2 Describe the diversity and structure of teaming activities, e.g., permanent, ad hoc or tiger teams, natural work groups; with data on the number and types of teams, number and percentage of workforce participating, frequency of meetings, and type of projects completed.
 - 2.2.2.3 Provide data on employee suggestion programs.
 - 2.2.2.4 Describe and provide data on the activities in utilizing minorities, women, and handicapped persons in the work force including:
 - Hiring and employment trends versus community levels
 - Promotion trends versus non-minority

- 2.2.3 Awards and recognition—evidence of techniques and their success in making innovation and improvements rewarding, e.g., gainsharing, bonuses, awarding merchandise, and/or other methods.
 - 2.2.3.1 State the objectives of the award/reward process including any restrictions to implementation.
 - 2.2.3.2 Describe the total recognition system including type of award, value, basis for recognition, frequency, etc.
 - 2.2.3.3 Describe how recognition is developed to be commensurate with contribution.
- 2.2.4 Health and safety
 - 2.2.4.1 Describe the health and safety programs and the qualifications of the personnel.
 - 2.2.4.2 Document frequency rates, severity rates, and lost time injuries.
 - 2.2.4.3 Describe the type and frequency of safety training that is provided to personnel.
 - 2.2.4.4 Describe any unusual or persistent safety problems.

SCORING GUIDELINES

Each criteria element is scored based on these guidelines. The determining percentage is then applied to the available points.

Percentage	Description	How Long in Place	Deployment	Performance	Resources	Planning
91-100	Excellent	3+ years	91-100%	Sustained high performance with constant improvement	Resources dedicated to activities are commensurate with need and effective	All activities are in- corporated in master plan to meet specific needs with provisions for feedback and modification
81-90	Very Good	3 years	81-90%	Starts moderately and improves to high performance	Most resources are adequate but some are excessive, inadequate, or ineffective	Most activities are included as part of overall plan with some exceptions. Feedback and program modification provisions are not completely implemented
71-80	Good	2-3 years	61-80%	Gradual continual improvement	Most resources are adequate but many are excessive, inadequate, or ineffective	Most activities are incorporated in overall plan but many activities have no coordinator
61-70	Average	2 years	41-60%	Starts low to moderate and improves slightly	Many areas have adequate resources but some are neglected entirely or poorly utilized	Individual plans govern most activities but lack coordination. Feed- back provisions are incomplete
51-60	Fair	1-2 years	21-40%	Starts low and improves to moderate	Resources are allocated sparingly without proper regard for need or appropriateness	Planning is sporadic although targeted for completion. No provisions for feed- back or modification
< 50	Poor	< 1 year	0-20%	Starts and stays low	Most programs and activities are poorly supported	Planning efforts are barely initiated

VI. SITE VISITS

FINALISTS SELECTION

Based on the results of the Application Report review by the Evaluation Committee, small business applicants who have demonstrated excellent performance in quality and productivity will be selected for recognition as finalists in the award process and receive a site visit.

FINALISTS ON-SITE VALIDATION

An on-site validation agenda will be provided to the finalist not later than 10 working days prior to the Validation Team's visit. The agenda will include a scheduled sequence of activities, an estimate of time required for the on-site validation, the names of the members and leaders of the Validation Team, and the requests for information in specific criteria areas if required.

The number of team members and the time required for validation will vary depending on the number and complexity of items being reviewed. The visit will be one-two days.

The data gathered by the Validation Team will be reviewed by the entire Evaluation Committee. No material can be forwarded for consideration after the validation visit is completed. The Evaluation Committee will prepare and present a Findings Report to the NASA TQM Steering Committee.

VII. AWARD RECIPIENT SELECTION

There is no limit to the number of finalists that can be selected as award recipients in the small business category. Selection of the annual award recipient(s) will be made by the Administrator on the recommendation of the NASA TQM Steering Committee based on their review of the Findings Report from the Evaluation Committee. All finalists selected as award recipients will be announced during the Annual NASA/Contractors Conference. (All decisions of the Administrator are final. Award recipients will be eligible to apply for another award four years after receiving the award.)

VIII. DEBRIEFINGS

All applicants or finalists will have an opportunity to receive a debriefing to identify strengths and areas for improvement. The debriefing will be scheduled as soon as practicable within the time constraints of the award process. Debriefings may be either face-to-face at NASA Headquarters or via teleconference as the applicant or finalist desires.

IX. RECOGNITION AWARD RECIPIENTS

Recognition

The receipt of the prestigious George M. Low Trophy carries with it the recognition by NASA that the award recipient has demonstrated sustained excellence and outstanding achievements in quality and productivity in the aerospace industry. The award recognizes that recipient(s) not only meet contract requirements, but go further: they provide products/services at such a high quality level that they set new levels of customer expectation.

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Awards

Each recipient will receive a trophy with the date and name of the organization. In addition, the recipient will receive a quality and productivity award flag and lapel pins for each employee at the facility. Presentation of the trophy will be made by the NASA Administrator in a special ceremony held at the recipient(s) location. The company representative receiving the award should be the highest ranking member of management at the recipient's facility. The achievements of the award recipient(s) and their outstanding systems and methods will be publicized through:

- A publication entitled Highlights of Excellence
- An article featured in the American Society for Quality Control's (ASQC) monthly journal, Quality Progress
- Participation in ASQC and NASA conferences
- Press releases
- A "George M. Low Trophy" videotape
- Participation in The Quality Forum
- A symposium hosted by the Award Recipient(s)

Promotion

During the year following the award announcement, each recipient will be asked to sign a Memorandum of Understanding (MOU) that will detail the obligation of award recipients in promoting the George M. Low Trophy award program.

AWARD FINALISTS

Recognition

Applicants that reach the level of award finalists are recognized by NASA as companies that have demonstrated superior achievements in quality and productivity.

Awards

All finalists will receive a plaque engraved with the finalist's name and the year of award. This plaque will be presented to the finalist's highest ranking officer by the NASA Administrator at a special ceremony held at the NASA/Contractors Conference. In addition, ASQC will recognize finalists at

NASA/Contractors Conference. In addition, ASQC will recognize finalists at its Annual Quality Congress.

A special poster is designed commemorating each year's finalists with individual and large scale copies distributed to each finalist organization.

FOR ADDITIONAL DETAILS, CONTACT:

Geoffrey B. Templeton NASA Quality and Productivity Improvement Programs Division NASA Headquarters - Code QB Washington, DC 20546 202/453-8415 202/426-1729 Facsimile number

OR

Craig A. Henry ASQC 611 East Wisconsin Avenue P.O. Box 3005 Milwaukee, WI 53201-3005 414/272-8575 414/272-1734 Facsimile number



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Administered by: Office of Safety and Mission Quality NASA Quality and Productivity Improvement Programs Division = 1-202-453-8415

and

ASQC 611 East Wisconsin Avenue P.O. Box 3005 Milwaukee, WI 53201-3005 1-414-272-8575