

United States Department of Agriculture Foreign Agricultural Service

Infrastructure Management

Quality Assurance Surveillance Plan (QASP)

Version V0.4

November 2008

Table of Contents

1	INTRODUCTION	3
2	WORK REQUIREMENTS	
3	THE PRIMARY METHODS OF SURVEILLANCE	
4	SCOPE OF PERFORMANCE	4
5	PERFORMANCE STANDARDS	4
6	PERFORMANCE EVALUATION METHODOLOGY	6
7	INCENTIVES (POSITIVE AND/OR NEGATIVE)	e
APP	PENDIX-A: PERFORMANCE EVALUATION MATRIX	8
APP	PENDIX-B: FAS PWS OBJECTIVES/REQUIREMENTS VS. PERFORMANCE METRICS	11

1 Introduction

The Quality Assurance Surveillance Plan (QASP) contains the high-level IT management requirements and strategies needed to manage and provide the proper quality of IT Infrastructure Management Services for Foreign Agricultural Services (FAS) rendered by the Contractor. It focuses on "how" service quality will be delivered along with targets in the form of Key Performance Indicators (KPIs). These KPIs define the parameters for the ITIL Service Delivery and Support processes as well as for any IT operational management processes.

A detailed plan for each ITIL Service Delivery and Support area is then developed by the Contractor (service supplier) to ensure that it meets the service quality requirements set forth in the QASP.

2 Work Requirements

The detailed work requirements of the IT Management Services contract are set forth in the Performance Work Statement and summarized in Appendix-B ("Performance Requirements Summary versus Performance Metrics") of this QASP. Specifically, in the table in Appendix-B, Columns C specifies the Performance Objectives (Desired Outcomes) for respective PWS sections.

In brief, the work requirements correspond to the following categories:

- Mission-critical goals and Scope of IT Infrastructure Management Services
- General Requirements
- Project and Program Management
- Network Services and Operations
- Telecommunications Support
- Helpdesk Support
- Facility Management
- Foreign Installations
- System Documentation and Operating Procedures
- Potential Requirements for the Future
- Deliverables and Reporting
- Quality Assurance
- Earned Value Management

The goal of the IT Infrastructure Management Services is to provide a high level of service quality, as measured by a defined set of Key performance Indicators (**KPI**s) and surveillance methodology specified in this QASP.

3 The Primary Methods of Surveillance

In general, cost-effective quality surveillance will involve a combinational use of the following methods:

- **100 Percent Survey.** This is recommended for mission critical issues and issues related to actual system failures and incidents; otherwise, it is not cost-effective and is too stringent.
- Random Sampling. Appropriate for recurring tasks or productions requirements.
- Periodic Inspection. Use a pre-determined plan based on analyses of agency resources and requirements.
- Customer Input. Suitable for service-oriented tasks; use a standard form to document.
- Contractor Self-Reporting. Appropriate for tasks like system maintenance where the contractor can provide system records collected by tracking and monitoring tools of that document performance; for development projects, monthly reports can detail problems encountered.

The specific applications of these surveillance methods to this IT Infrastructure Management Services contract are described in sections 5 to 7 of this QASP.

4 Scope of Performance

The Scope of Performance (Performance Requirements) is specified in the Work Performance Statement (PWS, sections 1 & 3), and summarized in Appendix-B ("FAS PWS Objectives/Requirements vs. Performance Metrics) of this QASP. Specifically, in the table in appendix-B, Columns D specifies the "Performance Requirements" for respective PWS sections.

It is the objective of this contract to fulfill the specified requirements as measured by the set of Key Performance Indicators (KPIs) and surveillance methods specified in sections 5 to 7.

5 Performance Standards

The Performance Standards specified for measuring the performance of FAS IT Infrastructure Support Services contract consist of a set of 15 Performance Metrics (Key Performance Indicators – KPIs, labeled 1,2, 3,...., 15), falling under 8 main performance categories (labeled, A, B, C,..., H), as follows:

Category	Performance Metrics (Key Performance Indicators -KPIs)
A: Satisfaction Rating &	1. User Satisfaction Rating
Evaluation	2. Management Evaluation Rating
B: Infrastructure /Network	3. Availability
	4. Time-to-Resolution
C: Operation & Maintenance	5. Maintenance/Backup Audit
D: Help Desk	6. Tier-1 Resolution
	7. Tier-2 Resolution
	8. First-Call Resolution
	9. Caller Wait Time
E: Reporting	10. Reporting Assessment
F: Documentation & Process	11. Documentation & Process Audit
G: Security	12. Risk Mitigation
	13. Security Audit
H: Inventory	14. Inventory Audit

The detailed definitions for the 154 performance are provided in a table in Appendix-A ("Performance Evaluation Matrix"). Specifically:

- Column-D of the table in Appendix-A provides the definitions of the 15 performance metrics.
- Column-C of the table shows, for each of the 14 metrics, the corresponding PWS sections numbers, for which the respective Required Services are covered by the individual metrics.
- Column-E of the table provide the specified **Acceptable Quality level (AQL)** which will serve as performance target values for each of the 15 metrics.
- It is of particular interest to note that the Metric #3 (Management Evaluation on Contract Goals) attempts to assess contract achievement on the basis of:
 - a) Cost Reduction,
 - b) Technology innovation,
 - c) Milestones,
 - d) General Performance and
 - e) Environmental Impact.

Furthermore, in Appendix-B ("FAS PWS Objectives/Requirements vs. Performance Metrics"), Column-E of the table provides an inverse mapping of the subsets of performance metrics, which address the Performance Objectives (Desired Outcomes) of respective PWS sections.

6 Performance Evaluation Methodology

The performance evaluation will be conducted based on the specifications provided in columns F, G and H of Appendix-A (Performance Evaluation Matrix):

- <u>Column-F: Monitoring Method</u> specifying the measurement and surveillance methods (100% and/or random sampling), reporting frequency (monthly or quarterly) or measurement/tracking tools.
- <u>Column-G: Incentives/Disincentives</u> specifying for points (+1 or -1) for measured metrics meeting of not meeting the respective specified AQL target values.
- Column-H: Assigned Weightings—for providing additional assigned weightings (x1, x2 or x3) in accordance with the relative importance of the metrics for achieving FAS's missions, resulting in the fully weighted range of [- 24 to +24] points.

<u>Performance Measurement and Evaluation.</u> The performance metrics will be measured every quarter.

- During the Base Year, the performance metrics will be measured but the performance scores will not be used for award term decisions (as incentive or penalty).
 Nonetheless, quarterly measurements will be made to allow continuous improvement on contract performance.
- At the end of the first Option Year, the average of the performance scores of the four quarters of the year will be used for the first Award Term decision according the Rating Scheme as stipulated in c). Similarly, at the end of the second Option Year, the averaged score of the year will be used for the second Award Term decision.

7 Incentives (Positive and/or Negative)

Using the Performance Evaluation Methodology (Section 6), a <u>Composite Annual Score</u> is computed by taking the average of the four quarterly scores, and rated against the possible full range of [-24 to +24] points.

Award Term (positive and/or negative) will be determined in accordance with the following Rating Scheme:

- Excellent: [+21 to +24] points receives 1 full year
- \triangleright Good: [+17 to +20] points receive half year

- ➤ Satisfactory : [+13 to +16] points is neutral
- \triangleright Marginal: [+9 to +12] points is penalized half year
- ➤ Unsatisfactory: less than or equal to +8 points is penalized 1 full year

More specific Award Term contract clauses are provided in the Contract and PWS documents.

"HELPFUL HINTS:

- 1. This QASP includes measurement of a significant number of reports and large amounts of data. Trying to measure too many things may be unwieldy and inefficient.
- 2. Take note of how the performance standards are weighted in Appendix A, page 9. This is a creative way to let the contractor know what's most important.
- 3. Appendix B repeats most, if not all, of the PWS. While it isn't incorrect, there may be a better way to incorporate these elements without repeating them.

Appendix-A: Performance Evaluation Matrix	
	Page 8

Г	А		В		С	D					
#	Category		ormance Objective esired Outcomes)		Required Services (PWS Section #)	Performance Standards (Performance Metrics, Key Performance Indicators - KPIs)					
1	A: Satisfaction	for all FAS IT services 3,4, 3.5, 3.10 quality for all			<u>User Satisfaction Rating</u> : For 100% calls/tickets and random sample of general us quality for all services; Score 5 to 1 [5:Excellent, 4:Very Good, 3:Satisfactory, 2:Margina ticket)]; Monthly Report. AQL: > x% scores at score 4 and 5		•				
2	Rating & Evaluation	satisfaction on performance i	level of Managemer the contract's day-to n all functional areas envisioned goals.	o-day and	1.3, 3.1, 3.2, 3.3, 3.4, 3.5, 3.8, 3.9, 3.10, 3.11, 10.1, 16	Management Evaluation Rating. Rating by Management & Staff of FAS ITD & Correported and stored quarterly for each of the required services, and annually for meeting pertaining to: (A) Cost Reduction, (B) Technology Innovation, (C) Milestones, (D) Gene Environmental Impacts. Rating score 5 to 1. AQL: > x% scores at score 4 and 5	FAS I	TD envisioned g	goals		
3	B: Infrastructure		operation of infrastruvice availability (up-ti		3.3, 3.4, 3.8	Availability: Ensure proper operation of infrastructure to guarantee service availability Network, Intranet, Internet WWW, E-mail, Remote Access, Messaging, Virus/intrusion Server Operations. AQL: x% availability.					
4	/Network		response and resolut rvice and network pro		3.3, 3.4	Time-to-Resolution: Respond to all windows servers and network infrastructure profesolve the problems within 1 hour of failure: AQL: x % of the time	olems w	vithin 30 minutes	s, and		
5	C: Operation & Maintenance	Ensure a high maintenance s	quality of operations support.	and	1.3, 3.1, 3.3, 3.4, 3.8, 3.9	Maintenance/Backup Audit: Perform all system maintenance, backup and upgrade pursuant to PWS specifications and/or as directed by FAS/ITD staff - AQL: > x % completion versus set target					
6		Ensure a high	quality of Tier-1 user	r support	support 3.5 Tier-1 Resolution: Tier-1 call resolution support is handled solely by service desk personnel. ≥85% resolved by desk; ≤15% passed to second level. Help-desk tickets (Tier-1) are responded to within 2 operational hours and reso within 4 operational hours. AQL: x % of the time						
7	n: Heln nesk	Ensure a high	quality of Tier-2 user	r support	3.5	Tier-2 Resolution: Tier-2 call resolution support is provided with the help of Contrac Help-Desk: ≥x % resolved at Teir-2, and < (100 -x) % passed to Tier-3 support, all within					
	ercentage of tro ing first contact		3.5	First-Call F	Resolution: x% of h	Help-desk tickets are resolved during first call/contact. AQL: x %	8		Ensure a hig are revolved		
	aiting time for al					lls placed to the Help Desk are answered by Help Desk staff within 30 seconds of call (60 seconds). AQL: x% and y %.	9		Ensure shor requesting h		
	reporting fulfils nt requirement					eports and notifications (daily, weekly, monthly and ad-hoc reports, and incident PWS are submitted on-time and in the format specified x% of the time. AQL: x%	10	E: Reporting	Ensure cont FAS manage		
infr	infrastructure documentation and 3.2, 3.4, 3.5 security/priva		acy procedures, disa	Audit: Ensure infrastructure documentation, configuration management, ster recovery plan, and standard operating procedures (SOPs) are meeting the targets AS/ITD management/staff. Quarterly Audit: 98% of set target achieved. AQL: 98%	11	F: Documentation 8 Process	Ensure com professional compliance procedures.				
oliar nent				one business	s day x% of the time	ent threats to the application environment: High risk events should be mitigated within . AQL: x% ance with all relevant government Information System Security Requirements, including .	12	G: Security	Ensure com and requirer		
FISMA, POA&M, COMSEC, incident handlin			FISMA, POA	lent handling, certification & accreditation x% of the time, AQL: x%	13		Fraura as T				
	nagement of IT equipment and network load) a			nventory of all equipment and system resources (i.e. disk storage, memory usage, s management system in any calendar month. Semi-annual Inventory Audit for QL: x% accuracy	14	H: Inventory	Ensure com inventory ma resource.				
/latrix						1/2		Performa	ince Evaluation №		

Е		, F			G			Н		\Box																							
Acceptable Level (A		Monitoring Method			Incentive/ Disincentive for Meeting/Not Meeting AQL			Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		Disincentive for		V	Assign /eightir m: [-24,	ng:	#
95%		<u>User Satisfaction Rating:</u> For 100% calls/tickets per tracking system, and random sample of general users on user-perceived service quality for all services; Monthly Report			≥AQL <aql< td=""><td></td><td></td><td>x3</td><td>1</td><td>-</td></aql<>			x 3	1	-																							
95%	%	Management Evaluation Rating: Quarterly Rating by Management & Staff of FAS ITD & Contract Office is solicited, obtained, reported and stored once a quarter for each of the required services; Annual FAS/ITD Managemer Evaluation of overall contract performance in meeting FAS/ITD envisioned goals pertaining to: (A) Cost Reduction, (E) ନାମ estables (ଆ) General Petermanage, fano (=) environments		1988 —	≥AQL ≺△∩∖	+1		x3	2	2																							
9.9%	systems.	ity: Compilation of Availability statistics for all services from respective monitoring and tracking Availability = 1 - { [Sum: (hours of each outage * number of users affected by each outage)] / [total number of users in month * 24 hours]}. Note: Exclude pre-scheduled outages.		QL AQL	+1 -1	X	2	3		ç																							
_		Resolution: Monthly compilation of Time-to-Resolution statistics for all services from respective g and tracking systems		QL AQL		x	1																										
-	Maintena reports.	ance/Backup Audit: Monthly compilation of maintenance, backup and upgrade records and		QL AQL		X	1	5																									
	Tier-1 Re TrackIt).	esolution: Monthly compilation of Help Desk tacking system records (e.g. FootPrint, Remedy,		QL AQL		X	2	6																									
	Tier-2 Ro TrackIt).	esolution: Monthly compilation of Help Desk tacking system records (e.g. FootPrint, Remedy,		QL AQL		х	1	<u> </u>																									
30%	TrackIt).	I Resolution: Monthly compilation of Help Desk tacking system records (e.g. FootPrint, Remedy,		QL QL		x	1	8																									
20	Trackit).	ait Time: Monthly compilation of Help Desk tacking system records (e.g. FootPrint, Remedy,		QL AQL		X	1	9		x:95% v:1009																							
<u>!</u> 9.50%	Reportin	g: Quarterly compilation of all types of reporting status.		QL AQL		X	2	1101		9:																							
<u>!</u> 98%	<u>Docume</u>	ntation & Process Audit: Quarterly Documentation and Process Audit.		QL AQL		X	2	111																									
98%	Risk Miti	igation: Monthly compilation of monitoring and tracking data for Security.		QL AQL		x	2	12																									
00%		Audit: Semi-annual audit of monthly reports on password and privileged account information for the	≥,∆	QL AOL	+1	X	2	13		1																							
	rentory A		≥AQL <aql< td=""><td></td><td></td><td>x1</td><td></td><td>14</td><td></td><td>98%</td></aql<>			x1		14		98%																							

Appendix-B: FAS PWS Objectives/Requirements vs. Performance Metrics	
	Page

Α	В	С	D	E
PWS Sec. #	PWS Section Title	Performance Objectives (Desired Outcomes)	Performance Requirements	Covered by Metrics (Key Performance Indicators - KPIs)
1.3 & 3.1	Scope & General Requirements		ep pace with changing technology and mission requirements in an	Management Evaluation Rating, User Satisfaction Rating, Maintenance/Backup Audit, Documentation & Process Audit
			Perform program and project management, network operations and services, security operations and services, desktop management, email management, server management, IIS administration, helpdesk services, telecommunications support, foreign installation of hardware and software. The contractor shall provide all personnel, tools, materials, supervision and other items necessary to perform these tasks. The services under this contract cover all FAS locations.	
3.2	Program & Project Management	Provide effective management ex	e Program and Project Management to fulfill FAS goals and ITD expectations	Management Evaluation Rating, Documentation & Process Audit
			a) Use Projects Management standards to develop systems and processes necessary for tracking the executions of projects. b) Use the agency's project management software to track projects and tasks. c) Ensure completions of deliverables, track milestones and adherence to timeliness across projects and institute necessary workflow alterations	
		Ensure effective	e management of all FAS LAN servers, in a large multi-server network	Availability, Time-to-Resolution, User Satisfaction Rating, Management

Α	В	С	D	E
PWS Sec. #	PWS Section Title	Performance Objectives (Desired Outcomes)	Performance Requirements	Covered by Metrics (Key Performance Indicators - KPIs)
			Physical and Logical Network topology and WAN Links Documentation	
13.5	Help Desk Management		quality and responsive IT support for all users of FAS IT systems, ng remote user's hardware and software problems, with high user and tisfaction.	Tier-1 Resolution, Tier-2 Resolution, First Call Resolution, Caller Wait Time, User Satisfaction Rating, Management Evaluation Rating, Documentation & Process Audit, Inventory Audit, Reporting Assessment
			Use Industry best practices - ITIL	
			Automated procedure for recording, tracking, and resolving all issues and trouble tickets.	
			Timely problem escalation to upper Tiers when needed	
			Maintain Knowledge Base to improve Tier-1 resolution	
			Time by and a stiff at an area between af all travelle tiples.	
		E	Timely and satisfactory resolution of all trouble tickets	Inventory Audit
3.6	Asset/Inventory Management	resource.	ensive, accurate and timely inventory management of IT equipment and	Inventory Audit
	g		Maintain complete, up-to-date and accurate inventory database for all IT equipment.	
≫li ₅ .	3.7441-5511	Ensure effective	support to assist FAS with Information System Security Program for its port of the University System Security Requirements	Security Audit, Risk Mitigation, 1000000000000000000000000000000000000
			Comply with all relevant government Information including FISMA, POA&M, COMSEC, incident ha accreditation.	
uation Rating, up Audit, Availability	3.8	 Facility Ma	Ensure complete, orderly and efficient operational support of (FASCF)	the FAS Computer Facilities Maintenance/Ma
			Monitoring of equipment performance	

Α	В	B C D		E
PWS Sec. #	PWS Section Title	Performance Objectives (Desired Outcomes)	Performance Requirements	Covered by Metrics (Key Performance Indicators - KPIs)
3.9	Hardware Maintenance		ality and on-time technical support for warranty repair, preventive ad out-of-warranty equipment repair services for equipment inside and	Management Evaluation Rating, Maintenance/Backup Audit, Reporting Assessment
			Provide effective hardware support on time and meeting ITD management requirements	
3.10	Foreign Installations		ality support to users in foreign installations	Management Evaluation Rating, User Satisfaction Rating
			Provide all necessary personnel to install, upgrade, test, configure and document hardware and software to FAS overseas offices.	
3.11	System Documentation and Operating Procedures		nensive, accurate and timely infrastructure documentation and compliance perating procedures.	Documentation & Process Audit
			Documentations for: Ad-hoc service procedures, Network diagram, Off-Hours/emergency team contact list, User manuals, Configuration, Contingency Planning and System Recovery Procedures, Custom programming, Ethernet address/equipment location database, Dial-in access database, Equipment inventory, registration and repair log database, Onsite and offsite backup tape library inventory, Production migration requests and results, Computer facility visitor log, etc.	
6	Deliverables and Reporting		updated, accurate, comprehensive and unified reporting to FAS nall activities and status in all functional areas of the Infrastructure	Reporting Assessment, Management Evaluation Rating
10.1	Key Perosnnel	functional area	nd highly qualified contract key personnel team for support of FAS key and effective communication with Contractor's senior corporate executive ogram's high-level goals and issue escalation.	Management Evaluation Rating
15	Security		e support to assist FAS with General Security Program for its multi-server ork environment, in compliance all relevant government information requirements	Security Audit, Risk Mitigation, Reporting Assessment
16	Earned Value Management (EVM)		ntactor's earned value management system (EVMS) complies with the sin ANSI/EIA Standard - 748 required by the contract.	Management Evaluation Rating, Reporting Assessment

Performance Objectives vs. Metrics (KPI) 3/3