

Appendix 13
In-Family and Out-of-Family Listing

For

**Information Management and
Communications Support (IMCS)**

Introduction

Changes made to systems hardware and software are divided into two categories: in-family and out-of-family. In-family work is routine and repetitive in nature. It is normally associated with providing a standard service. The Government will not be in-line to the contractor delivering services that are in-family. Work classified as out-of-family denotes items that the Government technical authority will be included in the approval process. Out-of-family work is any change that will affect the system baseline design and/or system architecture. An architecture change is the addition of new capability, change in system topology, system modification, or system software change. Changes in topology include first-time provision of a standard service to a facility.

This applies to work performed by the contractor in response to customer service requests and work that is internally generated such as sustaining tasks.

Nominally, the Government technical authority is the NASA system lead for a given area. Often, this requirement is delegated to designated NASA system engineers. Throughout contract execution, the Government will provide and maintain a list of authorized technical authorities.

In-Family Work

Items listed below are the systems and types of changes that are considered in-family and Government approval is not required prior to performing work:

Astrocomm – None

Asynchronous Transfer Mode (ATM) including, but not limited to, additions, removals, and modifications (hardware and software) of:

- Circuit activation

BCDS including, but not limited to, additions, moves, and deletions of drops

FOTS including, but not limited to, additions, moves, and deletions of equipped circuits

OIS-D including, but not limited to, additions, moves, and deletions of:

- OIS units

- Speaker monitors

- Headset jacks

- Cross-connects

- Jack boxes

OIS-Q including, but not limited to, additions, moves, and deletions of:

OIS units

Cross-connects

Jack boxes

OTV including, but not limited to, additions, moves, and deletions of:

Monitors

Keypads

Outside Fiber-Optic Cable Plant - None

PAWS including, but not limited to, additions, moves, and deletions of:

Local microphones

Audio mixers and mixer extenders (not area warning)

Power amplifiers (not area warning)

Speakers

70-volt distribution

Radio including, but not limited to, additions, moves, and deletions of:

Mobile and portable (including vehicle) radios

Programming of mobile and portable radios

KNET including, but not limited to, additions, moves, and deletions of:

CFPs

User circuits

KSC Network Configuration Board approved Network Security Perimeter Access Request processing and implementation, including Firewall and router Access Control List (ACL) modifications

KSC Network Configuration Board approved Secure Remote Access Services Account Request processing and implementation, including two factor credential issuance

T-Carrier/SONET including, but not limited to, additions, moves, and deletions of circuits

VDMS including, but not limited to, additions, moves, and deletions of:

Voice, data, and aggregate cards

Data circuits

Wideband Transmission systems (WBTSs) limited to the deletions of:

Circuits

System equipment (not Range Safety)

Administrative Telephones, including, but not limited to, additions, moves, and deletions of:

Line & Trunk Service including Hot Dials (Inside KSC)

Telephone Instruments

Voice Mail Boxes

Conference Services

Corrective and Preventative Work Orders

Validation Work Orders

Fabrication of standard items such as:

Self-Contained Atmospheric Protective Ensemble (SCAPE) communications interface equipment, headset cords and extenders, miscellaneous cables, mounting brackets, non-Class 1, Div 2 enclosures,

Inside Fiber-Optic and Copper Cable Plants

Point-to-Point Audio Circuits

Point-to-Point Data Circuits

Public Affairs Office (PAO) Audio

Web-Page development

Reproduction Functions

System documentation updates

Out-of-Family Work

Items listed below are the systems and types of changes that are considered out-of-family and Government approval is required prior to performing work:

Operational Intercommunications System - Digital (OIS-D) including, but not limited to,

Additions, removals, and modifications (hardware and software) of:

Group processor assemblies

Central summing network

Technical control

Off network processor system

Record and playback system

Power distribution

Data transmission equipment

Operational Intercommunications System - Quintron (OIS-Q) including, but not limited to, additions, removals, and modifications (hardware and software) of:

Central equipment

T1/D4 interface module

Channel banks

System administration terminal equipment

Voice and Data Management (VDMS) and attendant circuit interface including, but not limited to additions, removals, and modifications (hardware and software) of:

Transport management system equipment

Fiber multiplexer

Expansion shelves

PAWS including, but not limited to, additions, removals, and modifications (hardware and software) of:

Paging panels

Central matrix equipment

Tone generators and distribution amplifiers

Control trays

Mixers and power amplifiers used for area warning

Astrocomm, all changes affecting the system.

Radio including, but not limited to, additions, removals, and modifications (hardware and software) of:

Crane, crawler transporter, and convoy communications equipment

Transmitters, receivers, and comparators

Remotes

Trunked equipment

Transportable Communications System (TCS)

Transoceanic Abort Landing (TAL) equipment

Copper Wideband Transmission System including, but not limited to, modifications of system equipment (Range Safety and safing cables)

Outside Fiber-Optic Cable Plant, new cable installations

Wideband Fiber-Optic Transmission System (FOTS) including, but not limited to, additions, removals, and modifications of:

Chassis

Multiplexers

New dark fiber circuit activation

Relocation or addition circuits

Networks including, but not limited to

Installation or removal of network hubs, switches, routers, or wireless access points. This includes adding or removing printed circuit cards in modular equipment.

Installation, removal, or relocation of DNS servers, DHCP servers, RADIUS servers, or NCC equipment & servers.

Addition or removal of software supporting the NCC.

Conversion of network connections from open network to private network, unless exception pre-authorized by NASA.

New wireless networks (open or private).

Router multicast changes.

Customer-Owned and Maintained (COAM) Networks connectivity.

Installation, modification, or removal of external link interfaces to KNET.

First time installation of new service in a CCAFS facility.

Network Security Perimeter system Architecture Modifications, including the addition of external links or substantial routing changes.

Operational Television (OTV), including, but not limited to, additions, removals, and modifications (hardware and software) of:

Central equipment such as video routing switcher, OTV system control units, synchronizing generators and distribution, video source synchronizers, video test generators, video measurement systems, video recording systems

Cameras pan and tilt

T-Carrier/Synchronous Optical Network (SONET) including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.

Asynchronous Transfer Mode (ATM) including, but not limited to, additions, removals, and modifications (hardware and software) of:

System equipment

New circuit activation

BCDS including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.

Photo-Optical including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.

Timing including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.

Administrative telephones, including, but not limited to, additions, removals, and modifications (hardware and software) of:

Switch infrastructure (LTG's, DLU's, SN, CP113, HTI/TRI, HiPath Trunking & Line Configuration.)

Off Center Switched Trunk Interfaces (LEC/CLEC, FTS, PRI's).

SecureLogix Infrastructure and Permission Sets

Conference Infrastructure

Voice Mail Infrastructure

VoIP infrastructure

KIIS including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.

Data Center including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.

Software applications including, but not limited to, additions or removal of applications. Any modification that changes the functionality of programs, applications, and databases listed in Appendix 7 – Applications List.

Webcast Studio including, but not limited to, additions, removals, and modifications (hardware and software) of system equipment.