

CHANGES TO NASA/KSC MASTER TEXT - August 2023

08/2023 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

Complete life cycle review. Updated technical requirements, references, and formatting on the following section:

28 31 00.00 98 FIRE DETECTION AND ALARM

05/2023 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

02/2023 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

11/2022 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

08/2022 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

05/2022 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

02/2022 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

Updated Section headers to new table format.

08/2021 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

02/2021 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

11/2020 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

08/2020 WEB RELEASE

SECTIONS UPDATED TO CURRENT UMRL.

07/2020 WEB RELEASE

PERFORMED TRI-ANNUAL MAINTENANCE ON THE FOLLOWING NASAKSC SECTION to

include:

Updating of the Section Format, per latest UFC 1-300-02 / CSI Guidelines

DIVISION 09 - FINISHES

09 90 00.00 98 11/14 PAINTING AND COATING
ARCHIVED 09 91 00.00 98 11/14 PAINTING SUPERSEDED BY 09 90 00.00 98
ARCHIVED 09 97 13.00 98 11/14 STEEL COATINGS SUPERSEDED BY 09 90 00.00 98

DIVISION 21 FIRE - SUPPRESSION

ARCHIVED 21 09 00.00 98 08/12 PREACTION CONTROL SYSTEMS SUPERSEDED BY
28 31 00.00 98
21 13 00.00 98 11/13 FIRE SUPPRESSION SPRINKLER SYSTEM
ARCHIVED 21 13 19.00 98 05/15 PREACTION SPRINKLER SYSTEMS SUPERSEDED BY
21 13 00.00 98
ARCHIVED 21 13 39.00 98 02/15 PREACTION SPRINKLER SYSTEMS SUPERSEDED BY
21 13 00.00 98
NEW 21 22 00.00 98 07/20 CLEAN AGENT EXTINGUISHING SYSTEMS
21 23 00.00 98 12/09 WET-CHEMICAL FIRE-EXTINGUISHING SYSTEMS
21 30 00.00 98 11/11 FIRE PUMPS

DIVISION 26 - ELECTRICAL

26 05 13.00 98 11/16 MEDIUM VOLTAGE CABLES
26 05 19.33 98 02/14 MINERAL-INSULATED (MI) CABLE
26 05 63.00 98 02/11 COORDINATED POWER SYSTEM PROTECTION AND ARC FLASH
ANALYSIS
26 23 00.00 98 10/07 LOW-VOLTAGE SWITCHGEAR CABLE

DIVISION 27 - COMMUNICATIONS

27 05 26.00 98 09/09 GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
27 11 00.00 98 11/14 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

DIVISION 28-ELECTRONIC SAFETY AND SECURITY

28 31 00.00 98 09/09 FIRE DETECTION AND ALARM
NAME CHANGE AND REVISION 28 31 33.00 98 11/11 AIR SAMPLING DETECTION
SYSTEMS (ASDS)

05/15 WEB RELEASE

**PERFORMED TRI-ANNUAL MAINTENANCE ON THE FOLLOWING NASAKSC SECTION to
include:**

Updating of the Section Format, per latest UFC 1-300-02 / CSI Guidelines
Cleaned up the Submittal Article

DIVISION 21 FIRE SUPPRESSION

21 13 19.00 98 09/09 PREACTION SPRINKLER SYSTEMS

**MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UNIFIED
MASTER REFERENCE LIST (UMRL) dated April 2015. REFERENCES THAT ARE NOT
LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KENNEDY**

SPACE CENTER (KSC) .

02/15 WEB RELEASE

PERFORMED TRI-ANNUAL MAINTENANCE ON THE FOLLOWING NASAKSC SECTION to include:

Updating of the Section Format, per latest UFC 1-300-02 / CSI Guidelines
Cleaned up the Submittal Article
Incorporated "Imperative Language" throughout

DIVISION 21 FIRE SUPPRESSION

21 13 26.00 98 09/09 DELUGE FIRE-SUPPRESSION SPRINKLER SYSTEMS - this Section as been renamed to 21 13 39.00 98 02/15 PREACTION SPRINKLER SYSTEMS

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UNIFIED MASTER REFERENCE LIST (UMRL) dated January 2015. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KENNEDY SPACE CENTER (KSC) .

11/14 WEB RELEASE

IMPORTANT UPDATE!

The NASA/KSC Master has adopted Automatic Paragraph Numbering. Before downloading the latest NASA/KSC Master, SpecsIntact v4.5.0 or newer is required! Versions of SpecsIntact older than v4.5.0 will not be compatible with this feature.

At the present time, the conversion process to use Automatic Paragraph Numbering is only a one way conversion process. Once a Job or Master has been converted, it cannot be converted back automatically.

SpecsIntact will also continue to support current SpecsIntact Jobs and Masters that use the existing format, and will allow them to be Converted to the new automatically numbered format.

To ensure that all NASAKSC Sections contain Automatic Paragraph Numbering, do as follows:

Right-click on the Master
At the top of the Menu, select Process
Convert Master to Automatic Numbering
When prompted to backup the Master, choose "Yes"

To learn more about Automatic Paragraph Numbering, visit the SpecsIntact Web Help Center, QuickStart Guide, Numeric, at <http://si.ksc.nasa.gov/HelpCenter/helpcenter.shtml>

Updated the Standard Submittal Note and Paragraph for the entire NASAKSC Master, to conform to the same language as the UFGS Sections. It has new information on Sustainability.

Added the following paragraph to the Submittal Note:

An "S" following a submittal item indicates that the submittal is required for the Sustainability Notebook

to fulfill federally mandated sustainable requirements in accordance with Section 01 33 29 SUSTAINABILITY REPORTING.

Revised the Standard Paragraph as follows:

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are [for Contractor Quality Control approval.][for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] Submittals with an "S" are for inclusion in the Sustainability Notebook, in conformance to Section 01 33 29 SUSTAINABILITY REPORTING. Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

PERFORMED MAINTENANCE ON THE FOLLOWING NASAKSC SECTIONS. THE SECTIONS WERE MODIFIED TO INCLUDE:

Updating of the Section Format, per latest UFC 1-300-02 / CSI Guidelines
Cleaned up the Submittal Article
Incorporated "Imperative Language" throughout

DIVISION 09 - FINISHES

09 90 00.00 98 02/07 PAINTING AND COATING
09 91 00.00 98 02/07 PAINTING
09 97 13.00 98 04/06 STEEL COATINGS

DIVISION 27 - COMMUNICATIONS

27 11 00.00 98 09/09 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

The following Organization Name was added to Section 01 42 00 SOURCES FOR REFERENCE PUBLICATIONS. This Master Section contains the names and addresses of all Sponsoring Organizations with technical References cited in the Master.

MASTER PAINTERS INSTITUTE (MPI)

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UNIFIED MASTER REFERENCE LIST (UMRL) dated October 2014. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KENNEDY SPACE CENTER (KSC).

02/14 WEB RELEASE

THE FOLLOWING SECTION WAS MODIFIED TO INCLUDE:

1. Revised the Section Format per the latest UFC-CSI guidelines
2. Cleaned up the Submittal Article
3. Incorporated "Imperative Language" throughout

DIVISION 26 - ELECTRICAL

26 05 19.33 98 02/09 MINERAL-INSULATED (MI) CABLE

THE FOLLOWING SECTION HAD A MINOR REVISION

Deleted repeated text found in General Note.

DIVISION 28 ELECTRONIC SAFETY AND SECURITY
28 31 00.00 98 09/09 FIRE DETECTION AND ALARM

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED January 2014. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

11/13 WEB RELEASE

THE FOLLOWING SECTION(S) WERE MODIFIED TO INCLUDE:

New language in Paragraph 3.9, and minor revisions relating to bracket placement and the submittal register. These updates are part of a Corrective Action Plan.

DIVISION 21 FIRE SUPPRESSION
21 13 00.00 98 11/13 FIRE SUPPRESSION SPRINKLER SYSTEMS

REFERENCES WITHIN THIS SECTION HAVE BEEN UPDATED TO THE UMRL DATED October 2013. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

11/27/12

THE FOLLOWING IS BEING POSTED AS A NEW NASAKSC SECTION

DIVISION 09 FINISHES
09 97 30.30 98 11/12 PROTECTIVE COATING OF
[CARBON][STAINLESS][STEEL][ALUMINUM] ON [STRUCTURES][FACILITIES][GROUND
SUPPORT EQUIPMENT]

REFERENCES WITHIN THIS SECTION HAVE BEEN UPDATED TO THE UMRL DATED October 2012. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

08/12 WEB RELEASE

THE FOLLOWING IS BEING POSTED AS A NEW NASAKSC SECTION - SINCE THE DoD WILL NOT BE DONE WITH THEIR "COMMISSIONING" SECTION UNTIL NEXT MARCH OR LATER AND THE NASA VERSION WILL BE NOT BE POSTED UNTIL THE UFGS NOV 2012 RELEASE:

DIVISION 01 - GENERAL REQUIREMENTS
01 91 00.00 98 COMMISSIONING

THE FOLLOWING SECTION(S) WERE MODIFIED TO INCLUDE:

1. Revised the Section Format per the latest UFC-CSI guidelines
2. Cleaned up the Submittal Article

DIVISION 21 FIRE SUPPRESSION
21 09 00.00 98 11/11 PREACTION CONTROL SYSTEMS

THE FOLLOWING SECTION(S) WERE MODIFIED TO INCLUDE:

Major Revisions
Added Subpart 1.3 ADMINISTRATIVE REQUIREMENTS

Added SD-01 Preconstruction Submittals, SD-11 Closeout Submittals
Revised the following Subparts: 1.5.1, 2.5, 2.6, 3.2, 3.2.3.1, 3.2.4

DIVISION 26 - ELECTRICAL

26 05 13.00 98 08/09 MEDIUM VOLTAGE CABLE

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED July 2012. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

02/12 WEB RELEASE

THE FOLLOWING SECTION(S) WERE MODIFIED TO INCLUDE:

Minor Changes

DIVISION 02 EXISTING CONDITIONS

02 82 13.00 98 08/11 ASBESTOS ABATEMENT
Minor change, Subpart 1.6

DIVISION 21 FIRE SUPPRESSION

21 13 00.00 98 05/11 FIRE SUPPRESSION SPRINKLER SYSTEMS
Minor change, Subpart 3.12

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED January 2012. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

11/11 WEB RELEASE

THE FOLLOWING SECTION(S) WERE MODIFIED TO INCLUDE:

1. Cleaned up the Submittal Articles (removal of redundant text)
2. Reorganize Section Format to conform to latest approved UFGS/CSI Section format
3. Review and impose "Imperative Language" throughout
4. Verified references with the latest UMRL dated October 2011

DIVISION 21 FIRE SUPPRESSION

21 09 00.00 98 09/09 PREACTION CONTROL SYSTEMS
21 30 00.00 98 09/09 FIRE PUMPS

DIVISION 26 - ELECTRICAL

26 05 13.00 98 08/09 MEDIUM VOLTAGE CABLE

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

28 31 33.00 98 10/07 FIRE DETECTION AND ALARM INTERFACES

The following paragraph was inserted into the General Note in ALL NASAKSC Sections:

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED October 2011. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

08/11 WEB RELEASE

THE FOLLOWING SECTION(S) WAS MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA:

DIVISION 02 EXISTING CONDITIONS

02 82 13.00 98 09/09 ASBESTOS ABATEMENT

05/11 WEB RELEASE

The following Organization Name was added to Section 01 42 00 SOURCES FOR REFERENCE PUBLICATIONS. This Master Section contains the names and addresses of all Sponsoring Organizations with technical References cited in the Master.

DIVISION 01 GENERAL REQUIREMENTS

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)

THE FOLLOWING SECTION was MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 21 FIRE SUPPRESSION

21 13 00.00 98 12/09 FIRE SUPPRESSION SPRINKLER SYSTEMS

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED April 2011. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

02/11 WEB RELEASE

AS A PART OF THE MAINTENANCE CYCLE, THE FOLLOWING WAS INSERTED AS A NEW SECTION

DIVISION 26 - ELECTRICAL

26 05 63.00 98 COORDINATED POWER SYSTEM PROTECTION AND ARC FLASH ANALYSIS

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED January 2011. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

12/09 WEB RELEASE

THE FOLLOWING SECTIONS WERE MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 21 FIRE SUPPRESSION

21 13 00.00 98 09/09 FIRE SUPPRESSION SPRINKLER SYSTEMS

21 23 00.00 98 09/09 WET-CHEMICAL, FIRE-EXTINGUISHING SYSTEMS

MOST REFERENCES IN ALL NASA/KSC SECTIONS HAVE BEEN UPDATED TO THE UMRL DATED October 2009. REFERENCES THAT ARE NOT LISTED IN THE LATEST UMRL ARE UPDATED BY ARCHITECTS / ENGINEERS AT KSC.

09/09 WEB RELEASE

AS A PART OF THE THREE YEAR MAINTENANCE CYCLE, THE FOLLOWING SECTIONS (13) WERE DELETED FROM THE NASALS DATABASE:

DIVISION 21 FIRE SUPPRESSION

21 21 00.00 98 10/07 CARBON-DIOXIDE FIRE-EXTINGUISHING SYSTEMS
21 24 00.00 98 10/07 DRY-CHEMICAL FIRE-EXTINGUISHING SYSTEMS

DIVISION 27 COMMUNICATIONS

27 11 19.00 98 10/07 COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS
27 13 13.00 98 10/07 COMMUNICATIONS COPPER BACKBONE CABLING
27 13 23.00 98 10/07 COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING
27 13 23.01 98 10/07 COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING (LTD)
27 13 43.00 98 10/07 COMMUNICATIONS SERVICES CABLING
27 15 00.00 98 10/07 COMMUNICATIONS HORIZONTAL CABLING
27 15 00.23 98 10/07 AUDIO-VIDEO COMMUNICATIONS HORIZONTAL CABLING
27 15 00.49 98 10/07 INTERMEDIATE/RADIO FREQUENCY COMMUNICATIONS
27 51 13.00 98 10/07 PAGING SYSTEMS
27 53 13.00 98 10/07 LOCK SYSTEMS

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

28 31 00.01 98 10/07 FIRE DETECTION AND ALARM (PROPRIETARY)

THIS SECTION WAS SUPERSEDED BY 28 31 00.00 98 FIRE DETECTION & ALARM

THE FOLLOWING SECTIONS WERE MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 02 EXISTING CONDITIONS

02 82 13.00 98 10/07 ASBESTOS ABATEMENT

DIVISION 21 FIRE SUPPRESSION

21 09 00.00 98 10/07 REACTION CONTROL SYSTEMS
21 13 00.00 98 10/07 FIRE SUPPRESSION SPRINKLER SYSTEMS
21 13 19.00 98 10/07 REACTION SPRINKLER SYSTEMS
21 13 26.00 98 10/07 DELUGE FIRE-SUPPRESSION SPRINKLER SYSTEMS
21 23 00.00 98 10/07 WET-CHEMICAL FIRE-EXTINGUISHING SYSTEMS
21 30 00.00 98 10/07 FIRE PUMPS

DIVISION 27 COMMUNICATIONS

27 05 26.00 98 10/07 GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
27 11 00.00 98 10/07 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

THE FOLLOWING SECTION WAS MODIFIED TO INCLUDE MAJOR MAINTENANCE CRITERIA

DIVISION 28 ELECTRONIC SAFETY AND SECURITY

28 31 00.00 98 10/07 FIRE DETECTION AND ALARM - This section was previously deleted in 02/09 Web Release. Bought back in 09/09 Web Release which included a Major re-write - Superseding 28 31 00.01 98 10/07 FIRE DETECTION AND ALARM (PROPRIETARY)

08/09 WEB RELEASE

THE FOLLOWING SECTION WAS MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 26 ELECTRICAL

26 05 13.00 98 10/07 MEDIUM VOLTAGE CABLE

THE FOLLOWING SECTIONS CONTAINED SECTION REFERENCE DISCREPANCIES

02 82 13.00 98 10/07 ASBESTOS ABATEMENT
Section 01 77 00.00 20 was Superseded by 01 78 00 CLOSEOUT SUBMITTALS

21 09 00.00 98 10/07 REACTION CONTROL SYSTEMS
28 31 00.01 98 10/07 FIRE DETECTION AND ALARM (PROPRIETARY)
Section 01 11 00.00 98 was Superseded by 01 11 00 SUMMARY OF WORK

21 13 00.00 98 10/07 FIRE SUPPRESSION SPRINKLER SYSTEMS
21 13 19.00 98 10/07 REACTION SPRINKLER SYSTEMS
21 21 00.00 98 10/07 CARBON-DIOXIDE FIRE-EXTINGUISHING SYSTEMS
21 30 00.00 98 10/07 FIRE PUMPS
Section 23 05 48.00 40 was Superseded by 23 05 48 VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT

NOTE:

References in ALL NASA/KSC Sections have been updated to the Unified Master Reference List (UMRL) dated July 2009.

02/09 WEB RELEASE

THE FOLLOWING SECTIONS WERE DELETED

DIVISION 01 - GENERAL REQUIREMENTS

01 11 00.00 98 10/07 SUMMARY OF WORK
Superseded by UFGS Section 01 11 00 SUMMARY OF WORK

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

28 31 00.00 98 10/07 FIRE DETECTION AND ALARM

Upon receipt of the updated 28 31 00.01 98 FIRE DETECTION AND ALARM (PROPRIETARY) this section will be renumbered to 28 31 00.00 98

THE FOLLOWING SECTION WAS RENAMED

DIVISION 26 ELECTRICAL

FROM: 26 05 19.00 98 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
TO: 26 05 19.33 98 MINERAL-INSULATED (MI) CABLE

NOTE:

References in ALL NASA/KSC Sections have been updated to the Unified Master Reference List (UMRL) dated July 2009.

Modified Section 01 42 00 SOURCES FOR REFERENCE PUBLICATIONS to contain the names and addresses of all Sponsoring Organizations with technical References cited in the NASA/KSC Master.

10/07 WEB RELEASE

In support of the continuing effort to update and meet the requirements of the Unified Facilities Guide Specifications (UFGS), the following changes were made to ALL KSC Sections:

- o The imperative mood was inserted into the sentence structure except for Division 09 - FINISHES which contain NO edits
- o References are in agreement with UMRL dated July 2009
- o Section numbers and titles referencing another section in the specification, within **Section Reference tags** and **NOTES**, were renamed to the MasterFormat 2004 number and title

THE FOLLOWING SECTION WERE DELETED

DIVISION 08 OPENINGS

08 70 00.00 98 04/06 HARDWARE

THE FOLLOWING SECTIONS WERE RENAMED

FROM: 26 05 19.00 98 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES
TO: 26 05 19.33 98 MINERAL INSULATED (MI) CABLE

09/07 WEB RELEASE

THE FOLLOWING SECTION WAS MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 02 - EXISTING CONDITIONS

02 82 13.00 98 09/07 ASBESTOS ABATEMENT

03/07 WEB RELEASE

THE FOLLOWING SECTIONS WERE DELETED

DIVISION 05 - METALS

05 05 23.00 98 04/06 METAL FASTENINGS
05 21 00.00 98 04/06 STEEL JOIST FRAMING
05 51 00.00 98 04/06 METAL STAIRS

DIVISION 26 - ELECTRICAL

26 05 26.00 98 04/06 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

DIVISION 31 - EARTHWORK

31 33 00.00 98 04/06 ROCK STABILIZATION

02/07 WEB RELEASE

THE FOLLOWING SECTIONS WERE MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 09 - FINISHES

09 90 00.00 98 02/07 PAINTING AND COATING
09 91 00.00 98 02/07 PAINTING

DIVISION 21 - FIRE SUPPRESSION

21 09 00.00 98 02/07 PREACTION CONTROL SYSTEMS
21 13 00.00 98 02/07 FIRE SUPPRESSION SPRINKLER SYSTEMS
21 13 19.00 98 02/07 PREACTION SPRINKLER SYSTEMS
21 30 00.00 98 02/07 FIRE PUMPS

DIVISION 27 - COMMUNICATIONS

27 11 00.00 98 02/07 COMMUNICATIONS EQUIPMENT ROOM FITTINGS
27 13 13.00 98 02/07 COMMUNICATIONS COPPER BACKBONE CABLING
27 13 23.00 98 02/07 COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING
27 15 00.00 98 02/07 COMMUNICATIONS HORIZONTAL CABLING
27 15 00.49 98 02/07 INTERMEDIATE/RADIO FREQUENCY COMMUNICATIONS
27 51 13.00 98 02/07 PAGING SYSTEMS

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

28 31 00.00 98 02/07 FIRE DETECTION AND ALARM
28 31 00.01 98 02/07 FIRE DETECTION AND ALARM (PROPRIETARY)

04/17/06 WEB RELEASE

In support of the continuing effort to update and meet the requirements of the Unified Facilities Guide Specifications (UFGS), the following changes were made to ALL KSC Sections:

- a. The **Banner** was revised to include the **MasterFormat 2004 number**, the **Preparing Activity KSC** tag, and the following statements below the Superseding Date:

References are NOT in agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags

- b. All dates between the Section Number (SCN) tag was changed to **04/06**
- c. The following statement was added as the last paragraph within the first **NOTE**, below the Section Date:

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

- d. **Replaced** the standard **Reference Note** and **Paragraph** with the one agreed upon at the Guide Specifications Working Group (GSWG) meeting

- e. **Replaced** the standard **Submittal Note** and **Paragraph** agreed upon at the Guide Specifications Working Group (GSWG) meeting
- f. **Reversed** the order of **ENG/MET** tags to **MET/ENG** throughout the text and notes
- g. **All** Section numbers and titles referencing another section in the specification, within **Section Reference tags** and **NOTES**, were renamed to the MasterFormat 2004 number and title

THE NASAKSC SINGLE MASTER REFERENCE LIST (SMRL) WAS UPDATED EXCEPT FOR THE MILITARY STANDARDS. THEREFORE, THERE WERE REFERENCE UPDATES IN THE MAJORITY OF THE SPECIFICATIONS

THE FOLLOWING SECTIONS WERE RENAMED TO THE "NEW" MASTERFORMAT 2004 NUMBERS AND TITLES

DIVISION 01 - GENERAL REQUIREMENTS

From: 01000 SCOPE AND DESCRIPTION
 To: 01 11 00.00 98 SUMMARY OF WORK

From: 01300 SUBMITTAL PROCEDURES
 To: 01 33 00 SUBMITTAL PROCEDURES

From: 01420 SOURCES FOR REFERENCE PUBLICATIONS
 To: 01 42 00 SOURCES FOR REFERENCE PUBLICATIONS

DIVISION 02 - EXISTING CONDITIONS

From: 13285 ASBESTOS ABATEMENT
 To: 02 82 13.00 98 ASBESTOS ABATEMENT

DIVISION 05 - METALS

From: 05095 WELDING OF CARBON STEEL (STRUCTURAL)
 To: 05 05 23.00 98 METAL FASTENINGS

From: 05211 STEEL JOISTS
 To: 05 21 00.00 98 STEEL JOIST FRAMING

From: 05511 METAL STAIRS
 To: 05 51 00.00 98 METAL STAIRS

DIVISION 08 - OPENINGS

From: 08711 FINISH HARDWARE
 To: 08 70 00.00 98 HARDWARE

DIVISION 09 - FINISHES

From: 09920 ARCHITECTURAL PAINTING
 To: 09 90 00.00 98 PAINTING AND COATING

From: 09915 PROTECTIVE COATING OF ALUMINUM
 To: 09 91 00.00 98 PAINTING

From: 09972 PROTECTIVE COATING OF CORROSION-RESISTANT STEEL
 To: 09 97 13.00 98 STEEL COATINGS

DIVISION 21 - FIRE SUPPRESSION

From: 13852 PREACTION CONTROL SYSTEMS

To: 21 09 00.00 98 PREACTION CONTROL SYSTEMS

From: 13930 AUTOMATIC SPRINKLER AND STANDPIPE SYSTEMS
To: 21 13 00.00 98 FIRE SUPPRESSION SPRINKLER SYSTEMS

From: 13931 PREACTION SPRINKLER SYSTEMS
To: 21 13 19.00 98 PREACTION SPRINKLER SYSTEMS

From: 13956 FOAM FIRE EXTINGUISHING FOR AIRCRAFT HANGARS
To: 21 13 26.00 98 DELUGE FIRE-SUPPRESSION SPRINKLER SYSTEMS

From: 13960 CARBON DIOXIDE EXTINGUISHING SYSTEMS
To: 21 21 00.00 98 CARBON-DIOXIDE FIRE-EXTINGUISHING SYSTEMS

From: 13971 WET CHEMICAL FIRE EXTINGUISHING SYSTEMS
To: 21 23 00.00 98 WET-CHEMICAL FIRE-EXTINGUISHING SYSTEMS

From: 13965 HALON FIRE DETECTION AND CONTROL SYSTEM
To: 21 24 00.00 98 DRY-CHEMICAL FIRE-EXTINGUISHING SYSTEMS

From: 13920 FIRE PUMPS
To: 21 30 00.00 98 FIRE PUMPS

DIVISION 26 - ELECTRICAL

From: 16124 MEDIUM VOLTAGE CABLE
To: 26 05 13.00 98 MEDIUM VOLTAGE CABLE

From: 16122 MINERAL-INSULATED CABLE
To: 26 05 19.00 98 LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

From: 16062 GROUNDING AND BONDING FOR SECURE AREAS AND SYSTEMS
To: 26 05 26.00 98 GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

From: 16445 LOW VOLTAGE SWITCHGEAR ASSEMBLIES
To: 26 23 00.00 98 LOW-VOLTAGE SWITCHGEAR

DIVISION 27 - COMMUNICATIONS

From: 16064 GROUNDING (COMMUNICATIONS) SYSTEMS
To: 27 05 26.00 98 GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS

From: 16701 COMMUNICATION/EQUIPMENT ROOMS AND ENTRANCE FACILITIES
To: 27 11 00.00 98 COMMUNICATIONS EQUIPMENT ROOM FITTINGS

From: 16700 BASIC PREMISE DISTRIBUTION SYSTEM (PDS) REQUIREMENTS
To: 27 11 19.00 98 COMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS

From: 16703 OUTSIDE CABLE PLANT - COPPER
To: 27 13 13.00 98 COMMUNICATIONS COPPER BACKBONE CABLING

From: 16123 FIBER OPTIC CABLE SYSTEM
To: 27 13 23.00 98 COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING

From: 16702 OUTSIDE CABLE PLANT - FIBER
To: 27 13 23.01 98 COMMUNICATIONS OPTICAL FIBER BACKBONE CABLING (LTD)

From: 16126 WIRING SYSTEMS (COMMUNICATIONS)
To: 27 13 43.00 98 COMMUNICATIONS SERVICES CABLING

From: 16704 PREMISE WIRING SYSTEM
To: 27 15 00.00 98 COMMUNICATIONS HORIZONTAL CABLING

From: 16725 AUDIO CABLE SYSTEMS
To: 27 15 00.23 98 AUDIO-VIDEO COMMUNICATIONS HORIZONTAL CABLING

From: 16802 BROADBAND COMMUNICATION DISTRIBUTION SYSTEM (BCDS)
To: 27 15 00.49 98 INTERMEDIATE/RADIO FREQUENCY COMMUNICATIONS

From: 16801 PAGING AND AREA WARNING SYSTEM
To: 27 51 13.00 98 PAGING SYSTEMS

From: 16705 TIMING AND COUNTDOWN SYSTEM
To: 27 53 13.00 98 CLOCK SYSTEMS

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

From: 13850 FIRE-ALARM AND DETECTION SYSTEMS
To: 28 31 00.00 98 FIRE DETECTION AND ALARM

From: 13851 FIRE-ALARM AND DETECTION SYSTEMS (PROPRIETARY)
To: 28 31 00.01 98 FIRE DETECTION AND ALARM (PROPRIETARY)

From: 13856 AIR SAMPLING DETECTION SYSTEMS
To: 28 31 33.00 98 FIRE DETECTION AND ALARM INTERFACES

DIVISION 31 - EARTHWORK

From: 02345 LIMEROCK STABILIZATION
To: 31 33 00.00 98 ROCK STABILIZATION

THE FOLLOWING SECTIONS WERE MODIFIED TO INCLUDE CORRECTIVE MAINTENANCE CRITERIA

DIVISION 13 - SPECIAL CONSTRUCTION
13850 04/06 FIRE DETECTION AND ALARM

THE FOLLOWING PARAGRAPH WAS INSERTED INTO THE FIRST NOTE

Where ten or less devices or summarized alarms (e.g., multiple water flow switches on the 4th floor combined as flow switch 4th floor) are reported, the new fire alarm control panel shall be a non-proprietary manufacturer and must communicate as a summary panel to either the Simplex or the Digitize fire alarm reporting systems. Unique applications, where it is cost effective to use a non-proprietary fire alarm control panel, the NASA AHJ and lead design engineer will concur with the use of a non-proprietary fire alarm control panel with greater than ten reporting devices or summarized alarms.

13851 04/06 FIRE DETECTION AND ALARM (PROPRIETARY)

THE FOLLOWING PARAGRAPH WAS INSERTED INTO THE FIRST NOTE

Where more than ten devices or summarized alarms (e.g., multiple water flow switches on the 4th floor combined as flow switch 4th floor) are reported, the new fire alarm control panel must communicate directly with either the Simplex or Siemens fire alarm reporting networks. Buildings with complex fire protection requirements exceeding the minimum ten reported alarms for non-proprietary systems (e.g., multiple preaction suppression systems with

air sampling detection for each system and multiple deluge suppression systems activated by specified clusters of flame detectors, etc.) are required to install either a Simplex or Siemens fire alarm control panel.