

CHANGES TO NASA/KSC MASTER TEXT

09/09 WEB RELEASE

AS A PART OF THE THREE YEAR MAINTENANCE CYCLE, THE FOLLOWING SECTIONS (13) WERE DELETED FROM THE NASAKSC 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**THIS SECTION WAS SUPERSEDED BY 28 31 00.00 98 FIRE DETECTION & ALARM**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 PREACTION CONTROL SYSTEMS  
21 13 00.00 98 10/07 FIRE SUPPRESSION SPRINKLER SYSTEMS  
21 13 19.00 98 10/07 PREACTION 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 PREACTION 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 PREACTION 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.