

**APPENDIX TO THE TEXAS GENERIC INSTALLATION STANDARDS**

**Texas Department of Housing and Community Affairs (TDHCA) Rule 10 TAC, §80.20(a) – (c), Requirements for Manufacturer's Designs and Installation Instructions, states:**

*The following tasks are the responsibility of the manufacturer:*

- (a) With each new home, the manufacturer shall provide printed instructions which at a minimum must:**
  - (1) specify the location, orientation and required capacity of stabilizing components on which the design is based;**
  - (2) be filed with the Department;**
  - (3) be approved by the manufacturer's DAPIA; and**
  - (4) contain DAPIA approval stamps, engineer or architect approval stamps, and the installation manual effective date on each page of the installation instructions or on the cover pages of bound installation manuals, unless an equivalent method of authentication is used for electronically filed documents.**
  
- (b) If a manufacturer determines that one or more of its homes requires a deviation from the generic standards to protect the structural integrity of the home, the manufacturer must include instructions for the necessary deviation in the manufacturer's DAPIA-approved installation instructions and provide a list of all homes affected. The manufacturer must provide a copy to the Department along with a letter informing the Department of the required deviation included in the instructions and giving the Department permission to reproduce and release copies of such instructions upon request. On the Department's website, the Department will maintain a current list of all required deviations from generic standards and will provide a copy to anyone who requests it.**
  
- (c) At least thirty (30) calendar days prior to the effective date of any change, modification, or update to the manufacturer's installation instructions or any appendix, the manufacturer shall file such change, modification, or update with the Department and mail a copy(s) to all the manufacturer's retailers. Links to appendix are posted on the Department's website.**

**The following manufactured home manufacturers filed appendix items with the Texas Department of Housing and Community Affairs. When installing homes (produced by these manufacturers) in accordance with the generic standards, installers must follow the details of change described below for each item.**

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**Town & Country Homes, A Division of Cavalier Manufacturing, Inc.**  
**P.O. Box 161727**  
**Fort Worth, Texas 76161**

**Phone: 817-740-9030**

**FAX: 817-740-1617**

**ITEM ONE**

<b>NTA (DAPIA) APPROVAL DATES FOR INSTALLATION MANUAL PAGES</b> The installation manual was approved by NTA (DAPIA) on December 6, 1999.
<b>PROVISIONS OF GENERIC STANDARDS BEING CHANGED FOR TOWN &amp; COUNTRY HOMES ONLY:</b> The Town & Country Homes' design requires a change for the standard in rule 10 TAC §80.24(e)(2)(A). For a home designed for and installed in Wind Zone II, this TDHCA standard requires a tie and perimeter pier at a location clearly marked on the home for shear wall straps.
<b>DETAILS OF CHANGE:</b> In addition to the shear wall tie and perimeter pier requirement for a Wind Zone II home, the Town & Country Homes' design requires a perimeter pier and tie at a location clearly marked for a shear wall strap for a Wind Zone I home. For a home designed for and installed in Wind Zone I, pages 24 (Note 16), 24.1 (Note 16), 25, 25.1, and 25.3 of the Set-Up Instructions for Manufactured Homes show the locations of interior shearwall tie down brackets which are factory installed and painted. These brackets must be connected to ground anchors and perimeter piers must be installed at these locations.
<b>EFFECTIVE DATE OF THIS APPENDIX ITEM:</b> May 31, 2000

**ITEM TWO**

<b>NTA (DAPIA) APPROVAL DATES FOR INSTALLATION MANUAL PAGES</b> The installation manual page A1-6 was approved by NTA (DAPIA) on April 6, 2000.
<b>PROVISIONS OF GENERIC STANDARDS BEING CHANGED FOR TOWN &amp; COUNTRY HOMES ONLY:</b> The Town & Country Homes' design requires a change for the TDHCA generic standard in rule 10 TAC §80.23(f)(2). This TDHCA generic standard only requires 18-foot wide (or more) home sections to have perimeter blocking per the Table in §80.23(f)(3). For other home section widths, perimeter blocking is an option that is installed in accordance with the pier loads of rule 10 TAC §80.23(f) and the Table in §80.23(f)(3) and the footer capacities of rule 10 TAC §80.23(d) and the Table in §80.23(a)(4).
<b>DETAILS OF CHANGE:</b> In addition to the perimeter blocking for 18 foot wide (or more) home sections required by the TDHCA generic standards, the Town & Country Homes' design also requires perimeter blocking under any Town & Country Homes model with optional 2x6 exterior walls. Page A1-6 of the Set-Up Instructions for Manufactured Homes shows this requirement. This page also requires perimeter blocking under all homes designed for 30, 40, and 60 psf roof load zones, but Texas only has a 20 psf roof load zone. The perimeter blocking required by this appendix shall be installed in accordance with the pier loads of rule 10 TAC §80.23(f) and the Table in §80.23(f)(3) and the footer capacities of rule 10 TAC §80.23(d) and the Table in §80.23(a)(4).
<b>EFFECTIVE DATE OF THIS APPENDIX ITEM:</b> This appendix page applies to homes produced by Town & Country Homes on and after June 29, 2000.

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**Fleetwood Homes of Texas**  
**2801 Gholson Road**  
**P.O. Box 154488**  
**Waco, Texas 76715**

**Phone: 1-888-592-7187**

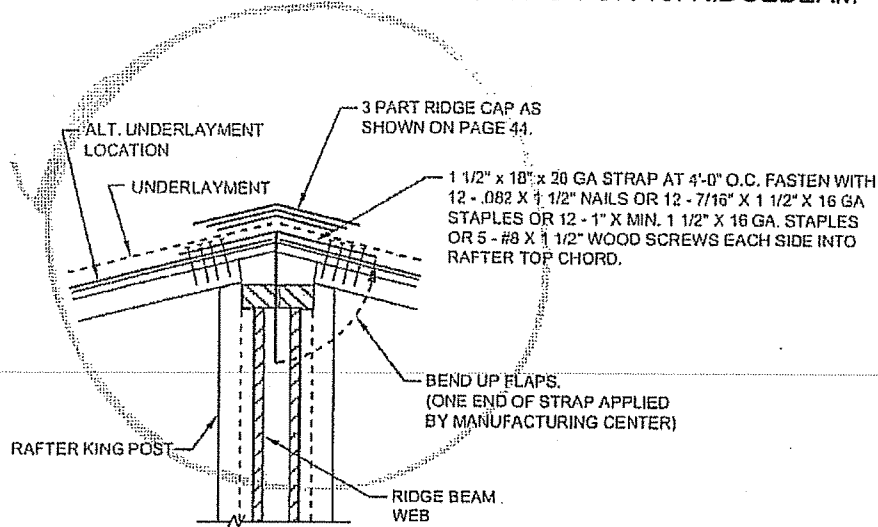
**FAX: 1-888-592-7169**

**EFFECTIVE DATE OF THE BELOW APPENDIX ITEMS:**

February 5, 2007

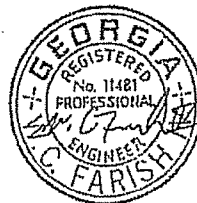
Exhibit "A" is the strapping of the TJI beam. This beam can not be lagged according to the state generic installation. Strapping has to be done in according to the manufacturer's requirements for multi-sections roof for zone 1 and zone 2.

ALTERNATE ROOF CONNECTION REQUIRED FOR TJI RIDGEBEAM



Peak Connection

*Exhibit "A"*



Notes:

1. Lag screw connections shown on page 44 are not required with this detail.
2. Special eave tiedown connections have been installed at the factory that allow the manufacturing facility to omit mating line labeled G-straps located at support posts that are typically required for uplift resistance. (See Note 3)
3. Any home factory-installed labeled G-straps found along the mating line are intended for shearwall tiedown and should be secured to a ground anchor.

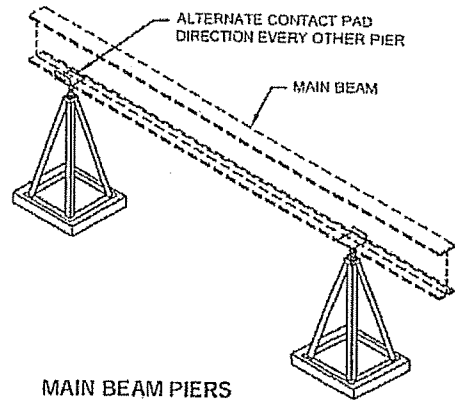
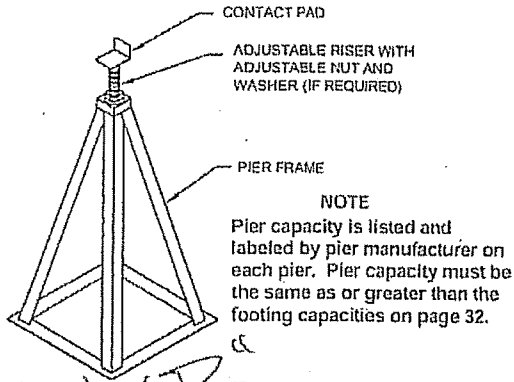
**NOTE: The exhibits are for wind zone 1, but they also apply to wind zone 2.**

Exhibit "B" is the installation of the G-2 strap or shearwall tie down, also, for zone 1 and zone 2.

NOTE: The exhibits are for wind zone 1, but they also apply to wind zone 2.

### COMMERCIAL METAL PIERS

Commercial metal piers may be used along with concrete piers.

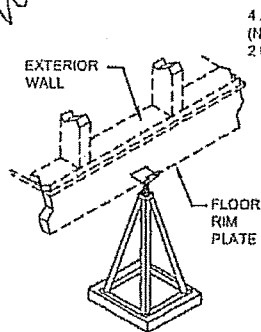


MAIN BEAM PIERS

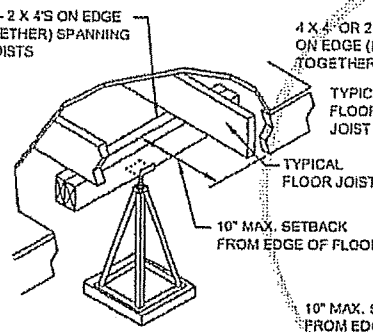
### PERIMETER PIERS

*Exhibit "B"*

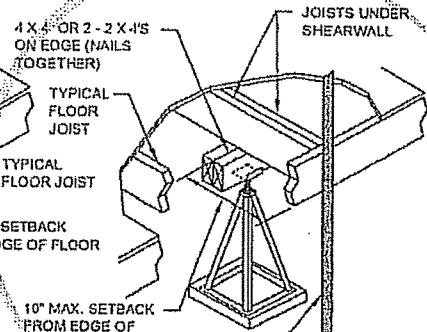
**4**



AT EDGE OF FLOOR



RECESSED BACK FROM EDGE OF FLOOR



AT LABELED G-2 STRAP LOCATION (SEE NOTE 1)

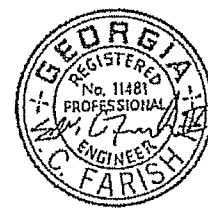
NOTES:

1. PIER MAY BE OFFSET UP TO 6" MAX. EACH SIDE OF STRAP TO MISS FRAME OBSTRUCTIONS AS LONG AS THE PIER STILL SUPPORTS THE FLOOR RIM PLATE.
2. NO STABILIZER PLATE IS REQUIRED FOR GROUND ANCHOR AT LABELED G-STRAP ALONG PERIMETER.
3. A LABELED G-2 STRAP NEED ONLY ATTACH TO A SINGLE GROUND ANCHOR.

### MINIMUM FOOTING REQUIREMENTS FOR LABELED PERIMETER PIERS AND LABELED G-2 SHEARWALL STRAP PIERS

LABELED PERIMETER PIERS			
Soil Capacity (psf)	FOOTING CONFIGURATIONS		
	16" x 16" Concrete Pad	8" x 16" Concrete Pad	2 x 12 x 24" Wood Pad
1000	SINGLE	DOUBLE	SINGLE
2000	SINGLE	DOUBLE	SINGLE
2000 TO 4000	SINGLE	DOUBLE	SINGLE

LABELED G-2 SHEARWALL STRAP			
Soil Capacity (psf)	FOOTING CONFIGURATIONS		
	16" x 16" Concrete Pad	8" x 16" Concrete Pad	2 x 12 x 24" Wood Pad
1000	DOUBLE	2 DBL PADS	DOUBLE
2000	DOUBLE	TRIPLE	DOUBLE
2000 TO 4000	SINGLE	DOUBLE	SINGLE



## **Clayton Homes**

**THE BELOW APPENDIX ITEMS RELATE TO THE CONNECTION OF  
DOUBLEWIDE HOMES:**

APPROVED

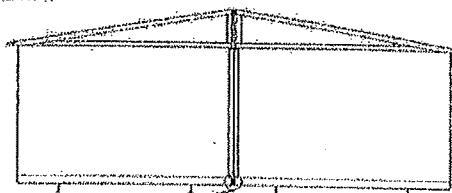
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CLAYTON

Revised  
Mar 31 2006

Federal Manufactured  
Home Construction  
And Safety Standards

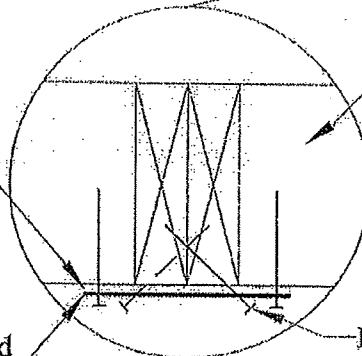


Alternate 1:

Install 26ga. x 1 1/2" steel strap with (4) #10 x 1 1/2" screws each end of strap into joist. Straps to be spaced 32" o.c. (max).

Alternate 2:

Install 26ga. x 2" steel strap with (5) #10 x 1 1/2" lag screws each end of strap into joist. Straps may be spaced 48" o.c. (max).



Floor joist

Install 3/8" x 3 1/2" lags 16" o.c. staggered from side to side at 45 degree angle from vertical

Floor Connections – Wind Zone II & III  
Figure 25

**Roof Fastening Requirements:**

Your home has been designed and constructed using advanced techniques that provide a level of structural integrity that is unique in the industry. The extra deep laminated beam that forms the ridge of your home is one example of a feature that makes it one of the strongest manufactured homes available. However, in order for this beam to function as it is designed, your installer must install all the required bolts in the specified locations.

**Standard Ridge Bolts**

Install a 1/2" bolt with 2 each – 15/16" washers in all pre-drilled holes in the ridge beam. Bolts and washers will be provided by the manufacturer. Single-bolt holes will be pre-drilled by the manufacturer at intervals of 12" to 48" along the length of the ridge beam.

**Cluster Bolts**

Additional groups of two to eight bolts will be located at varying distances along the ridge beam depending on the configuration of the home. Not all homes will require cluster bolts. The homes that do require cluster bolts will be identified by the manufacturer. These areas will be marked on the ridge beam by red paint. These bolts are critical to the construction of your home.

**Wind Zone II & III Requirements**

Additional straps and lag screws are required as shown in Figure 27 on page 64. These straps and screws are in addition to the bolts discussed above.

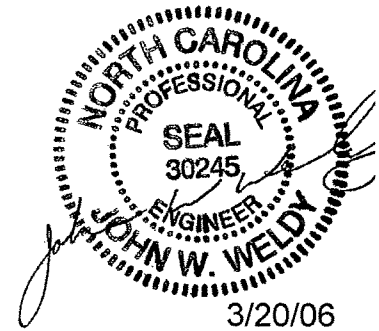
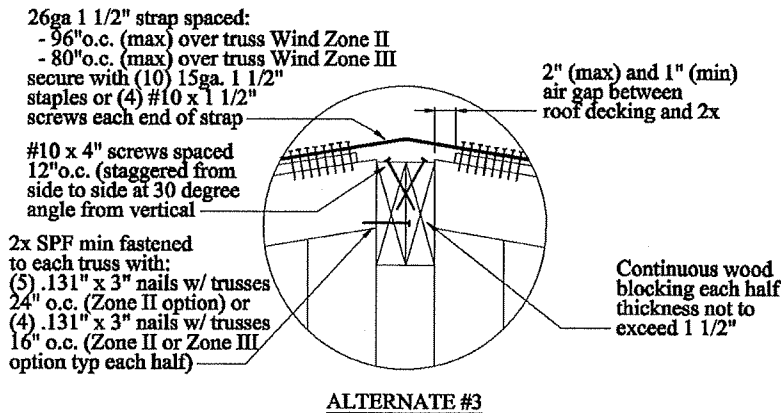
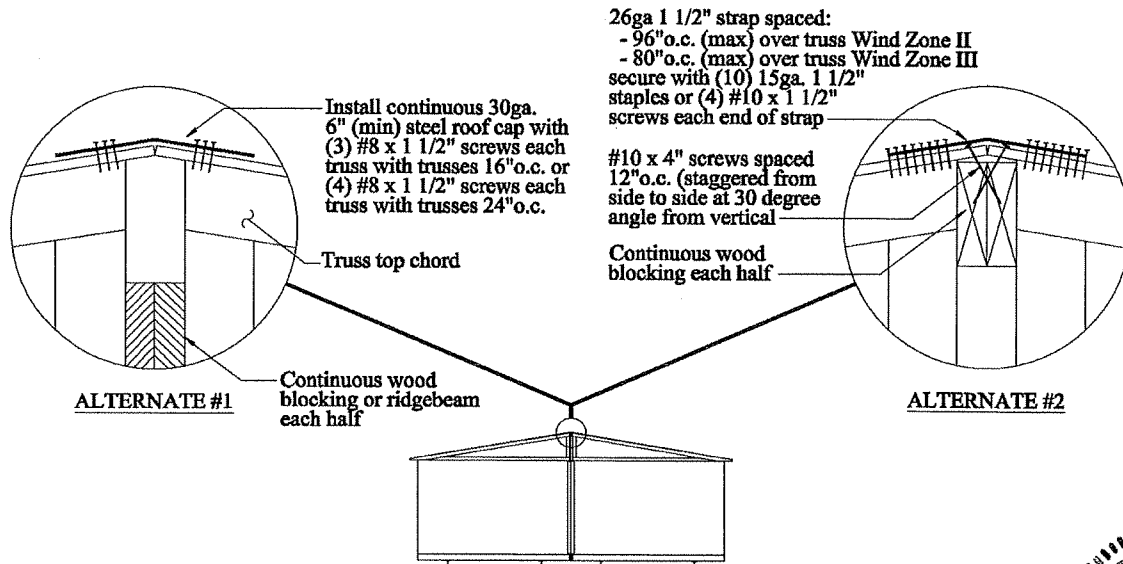
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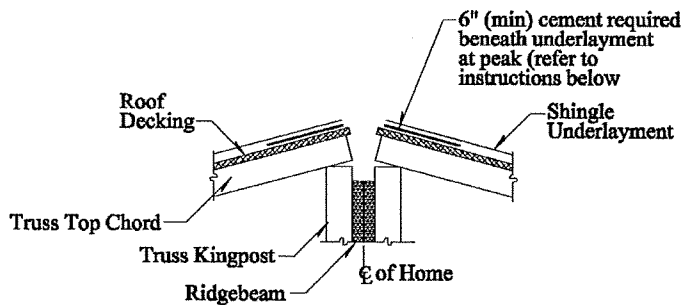
**SU-D-66.4**

**SEAL**  
30245  
NORTH CAROLINA  
PROFESSIONAL  
ENGINEER  
JOHN W. WELSH  
3/20/06  
**SU-D-66.4**

CLAYTON



Wind Zone II and III Roof Connections

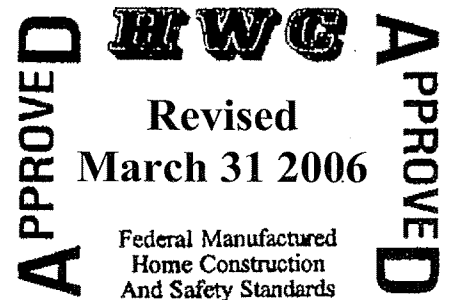


**INSTRUCTIONS:**

1. The temporary piece of decking material is to be removed along ridge of home to allow the installation of the ridge beam connecting bolts.
2. After ridgebeam bolts have been installed, secure decking material back in place with 15ga. 1 1/2" staples 2 1/2"o.c. into truss top chords. or 8d nails 2 1/2"o.c. into truss top chords.
3. Before installing shingles at ridge peak, you must cement the underlayment to the roof decking with 6" (min) cement strip along the peak of the roof on both halves of the home.
4. Shingles may then be installed per manufacturers instructions.

Shingle Underlayment and Cement Application at Roof Peak

Roof Connections and Shingle Installation – Wind Zone II & III  
 Figure 27

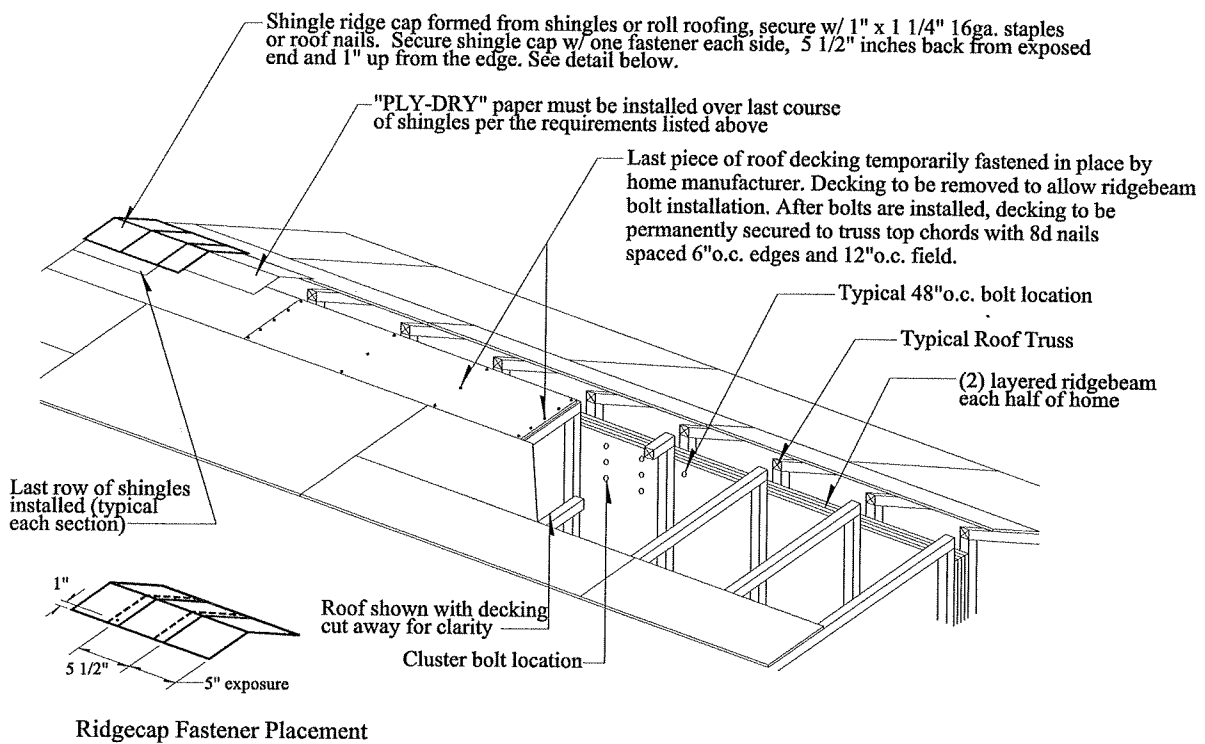




**Shingle Installation**

The manufacturer's instructions for the installation of shingles at the marriage seam must be carefully followed to ensure leaks do not occur in this area. If the true roof pitch is less than 4/12, a piece of roofing paper must be installed at the peak so that it overlaps the existing underlayment by 19". If a single piece of roofing paper cannot be used to overlap the existing underlayment by 19" on both halves of the home then an additional 12" minimum piece of underlayment must be installed 6" minimum on each side of the peak. For roof pitches greater than 4/12 the roofing paper must overlap the existing underlayment by 2" and be installed 6" minimum on each side of the peak.

For Wind Zone II & III, increase nails per shingle from four to six nails per shingle. Sheathing must be fastened with an 8d nail at 6" o.c. along the edges and 12" o.c. in the field. Seams of field installed sheathing must be offset 16" from the seams on factory installed sheathing. See the figure on the following page for additional information on securing shingles in Wind Zone II & III.



Roof Connections  
Figure 26

**H W G**

Revised  
**DEC 29 2004**

Federal Manufactured  
Home Construction  
And Safety Standards

**APPROVED**

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**SU-D-67.2**