2.4 SELECTION OF FINISH CODE - Selection of the proper finish code is directly related to the designer's knowledge of finish requirements as specified in the preceding section of this specification. The designer must be familiar with these contractual requirements and be governed by them rather than by a personal preference of finishes.

The following procedure and examples will be of benefit to the designer as a guide for selecting the proper finish for a design:

Step 1. Determine the physical location with respect to the aircraft of the part or component in question. FPS-3001 covers these areas in the following paragraphs as noted therein:

3.2 Basic Exterior Finish

3.3 Special Exterior Finish

3.4 Basic Interior Finish

3.5 Special Interior Finish

3.6 Special Finishes

Step 2. Determine the material of construction of the part or component. Subparagraphs of the above primary paragraphs specify requirements for aluminum, titanium, corrosion resistant alloys, plated parts, glass reinforced plastics, and graphite composites. Notice that the first requirement given refers to 3.1 of FPS-3001 for cleaning and surface treatment requirements. Cleaning options are incorporated in the finish codes and will not require a specific call-out on the Engineering Drawing.

Step 3. Determine the applicable surface treatment requirement as specified in 3.1 of FPS-3001. Subparagraphs of 3.1 specify requirements for aluminum, titanium, corrosion resistant steel, non-corrosion resistant steel, copper, nickel, magnesium alloys, glass reinforced plastics, and graphite composites.

Step 4. Determine the complete finishing requirements for the part or component by combining the above requirements and comparing these with Basic Element descriptions in front of the Finish Codes.

Step 5. Determine the proper code for the complete finishing requirement from the applicable section of this document and enter in the FINISH column of the PL.

NOTE: Due to the large number of "A", "D" and "S" finish codes, a cross-reference guide has been provided at the end of this section for quick access to applicable codes. It is emphasized that the guide is not a substitute for thorough examination of finish requirements, and the individual finish codes should always be consulted. The on-line Finish Code Data Base will have Code Selector Screens that will aid Engineers in obtaining finish codes.

RATIONALE AND EXAMPLES OF FINISH CODE SELECTION

EXAMPLE NO. 1 - Finish code for bare 2024-T851 fuselage longeron in non-fuel area.

Step 1 - Fuselage longeron should be Basic Interior finish, Para. 3.4 of FPS-3001.

Step 2 - Material of construction is bare 2024-T851 aluminum alloy. Para. 3.4.2 specifies finish for aluminum alloy. Para. 3.4.2(b) specifies finish for 2024 aluminum as follows:

(1) Clean and surface treat per 3.1.1(a).