FILTER BAGS

I. GENERAL:

This standard is intended to provide specifications for the procurement of the Filter Bags used in the North Side Generation Station Units 1 & 2 Circulating Fluidized Bed Boiler, AQCS Bag House. This Bag House is utilized to meet EPA emission requirements and these bags are designed specifically to fit in the Tube Sheet of the NSGS AQCS Bag House. No design deviations what so ever shall be accepted for this Filter Bag.

II. DESCRIPTION OF FILTER BAG:

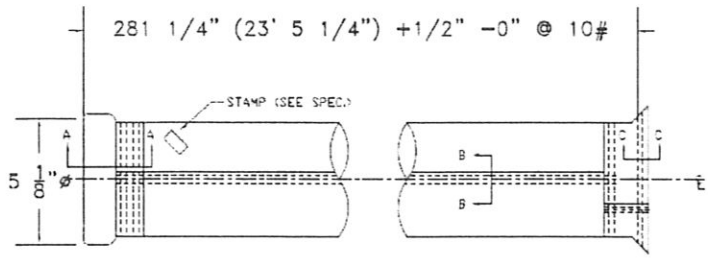
The following shall be provided:

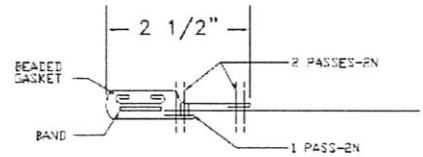
II.1.1. Bag Dimensions:.....5.13" Dia X 281.250" Long
II.1.2. Bag, Flat Dimensions..... 8.1875 inches
II.1.3. Bag Fabric..... Polyphenylene Sulfide Fiber (PPS)
II.1.4. Fabric Weight.....18 oz. +- 1
II.1.5. Fabric Thickness.....070" - .090"
II.1.6. Sewing Thread:....Rastex, Type 4300,Polytetrafluoroethylene (PTFE)
II.1.7. Filter Media Denier (Fiber Diameter).....2.7
II.1.8. Bag Stability..... Maximum 2% Residual Shrink or Stretch at 400°F
II.1.9. Bag Permeability: ..... 20-40 CFM @ 0.5 W.G pressure drop
II.1.10. Mullen Burst Pressure:.....Min. 440 PSI
II.1.11. Scrim Count::.....19 X 11
II.1.12. Scrim Weight::.....3.0 oz/sq yd
II.1.13. Fabric Finish: .....Heat Set, Singed One Side

III. GENERAL MANUFACTURING REQUIREMENTS:

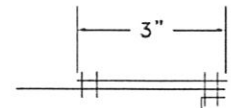
III.1.1. All bags shall have fused vertical seams
III.1.2. All bags shall be manufactured with a separate Bias Woven Snap Band Cuff to fit cell holes 5.427 – 5.428 X .25"
III.1.3. All bags shall be manufactured with a 1 ply disc closure Tubed Wear strip.
III.1.4. Filter Bag Manufacturers must submit Fabric Certifications to JEA AQCS Manager for approval prior to start of bag manufacturing.

ASSEMBLY DRAWING

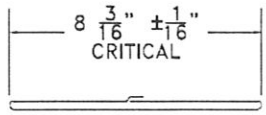




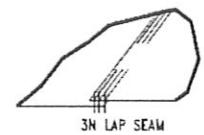
SEPARATE BIAS WOVEN SNAP BAND CUFF
TO FIT CELL HOLE 5.427-5.428"ø X .25"
VIEW A–A



TUBED WEARSTRIP W/
1 PLY DISC CLOSURE
VIEW C–C

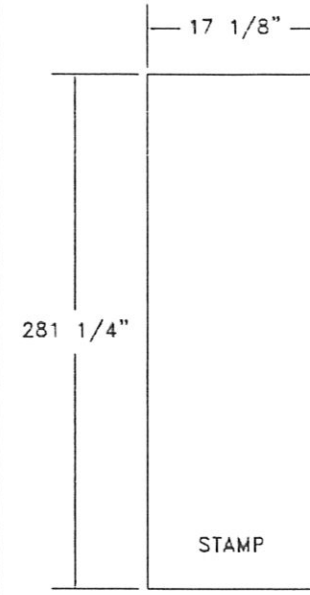


IN FLAT DIMENSION



VIEW B–B

LAY CUT DRAWING



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TWO PIECE PULSE JET FILTER BAG CAGE

I. GENERAL:

This standard is intended to provide specifications for the procurement of the Two Piece Pulse Jet Filter Bag Cages used in the North Side Generation Station Units 1 & 2 Circulating Fluidized Bed Boiler, AQCS Bag House. This Bag House is utilized to meet EPA emission requirements and these cages are designed specifically to fit in the NSGS AQCS Bag House. No design deviations what so ever shall be accepted for this cage.

II. DESCRIPTION OF PULSE JET FILTER BAG CAGES:

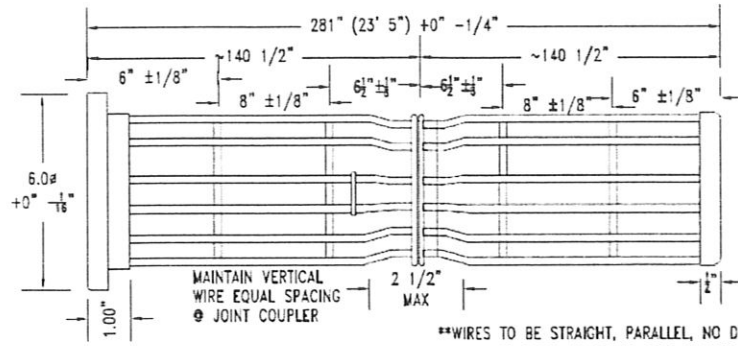
The following shall be provided:

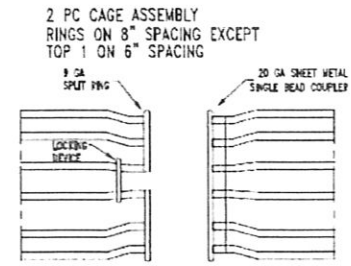
II.1. CAGE: 2 PIECE, BEADED COLLAR CONNECTION DESIGN WITH SLIDE LOCKING PLATE, TURNED DOWN FLANGED TOP AND A BOTTOM PAN.

- II.1.1. Cage Diameter: .....5 inches
- II.1.2. Cage Length:.....281" Long
- II.1.3. Wire Material / Gauge..... Carbon Steel, 9 Ga
- II.1.4. Number of Vertical Stringers: 12 on 8 spacings
- II.1.5. Distance Between Spacer Rings.....8 inches
- II.1.6. Type of Construction: ..... 2 Piece
- II.1.7. Top Design:.....6 inch Diameter Cap
- II.1.8. Top Material.....18 Ga.
- II.1.9. Venturi Length.....No Venturi Required

III. GENERAL MANUFACTURING REQUIREMENTS:

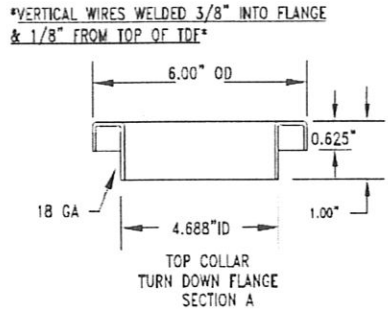
- III.1.1. All wires shall be straight and parallel with no deflections or spiraling and perpendicular to the rings.
- III.1.2. All outside edges shall be smooth with no burrs allowed
- III.1.3. All 12 vertical wires shall be equally spaced.
- III.1.4. All vertical wires shall be equally spaced at joint coupler
- III.1.5. All vertical wires shall be welded 3/8" into the flange and 1/8" from the top of the Turn down Flange.

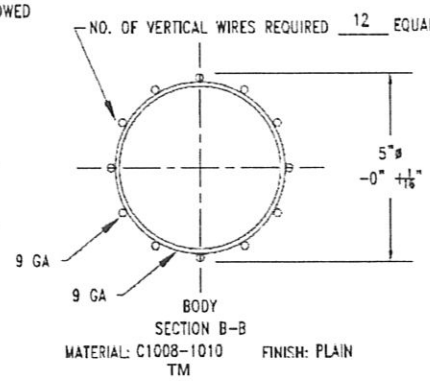
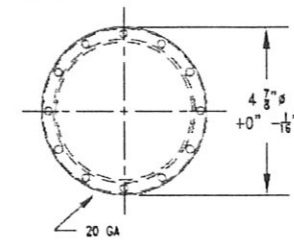




WIRES TO BE STRAIGHT, PARALLEL, NO DEFLECTION OR SPIRALING & PERPENDICULAR TO RINGS
**MAKE SURE ALL RINGS, TOP FLANGE AND BOTTOM PAN ARE WELDED TO ALL WIRES **

ALL OUTSIDE EDGES TO BE SMOOTH – NO BURRS ALLOWED





MATERIAL: C1008–1010 FINISH: PLAIN
TM