MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-182
Item to be Scouted	Service Transition Tee
Days to be scouted	15
Response Due By	06/19/2025
Description	1"x1/2" Service Transition Tee Steel to Plastic for Natural Gas

Section 2: Technical Information

Type of supplier being sought	Distributor
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Welding; Casting
Provide dimensions / size / tolerances / performance specifications for the item	1"x1/2" Transition Tee Steel to Plastic. See attached document for additional specifications
List required materials needed to make the product, including materials of product components	Steel Nipple, Polyethylene (PE) Pipe 100 High-Density Polyethylene (HDPE) 4710
Are there applicable certification requirements?	No
Are there applicable regulations?	Yes
Details	Department of Transportation (DOT) Part 192 of Title 49 CFR
Are there any other stndards, requirements, etc.?	Yes
Details	The American National Standards Institute (ANSI) B31.8 American Society for Testing and Materials (ASTM) A106 American Society for Testing and Materials (ASTM) 2513
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	250 Units
Estimated target price / unit cost information (if unavailable explain)	US$305/ea.
When is it needed by?	1 Month
Describe packaging requirements	Individual. Best available. Delivered undamaged. Specifics discussed in negotiation.
Where will this item be shipped?	San Antonio, TX

Additional Comments

Is there other information you would like to include?	Steel Tapping Tee welded to transition fitting

SPECIFICATION

FOR

PLASTIC PIPE TRANSITION FITTING

Specification No.: 530-01

Original Date: October 5, 2010

Revision Dates:

January 16, 2019

June 7, 2019

CPS ENERGY

P.O. Box 1771

San Antonio, Texas 78296

Richard Urrutia Jr., Interim Senior Director of Supply Chain

Thomas L. Narendorf, Director of Gas Engineering Design & Specifications

1.0 SCOPE

1.1 Application. This specification covers the minimum acceptable requirements for plastic pipe transition fitting which are intended for use with gas installations.

1.2 Applicable Standards. Plastic pipe transition fitting covered by this specification shall comply with the National Standards listed below, except where they conflict with the requirements of this specification. The order of precedence shall be this specification, then the following standards.

DOT Part 192 of Title 49 CFR; Regulations for the Transportation of Natural and Other Gas by Pipeline; Minimum Federal Safety Standards

ANSI B31.8-2007; Gas Transmission and Distribution Piping Systems

ANSI/ASME B1.20.1; Standard for Pipe Threads, General Purpose, Inch

API 5L-2013; American Petroleum Institute Specification for Line Pipe

ASTM A53/A53M-10; Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless

ASTM A106/A106M-10; Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service

ASTM A370-03a; Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTM A513; Specifications for Electric Resistance Welded Carbon and Alloy Steel Mechanical Tubing

ASTM D2517-00: Reinforced Epoxy Resin

ASTM D-1693-05; Standard Test Methods for Environmental Stress Cracking of Ethylene Pipe

ASTM D-2513-12ae1; Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings

ASTM D-2657-03; Standard Practice for Heat Fusion Joining of Polyolefin Pipe and Fittings

ASTM F-2620-12; Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings

ASTM D-2683-04; Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing

ASTM D-3261-03; Standard Specification for Butt Fusion Polyethylene Plastic Fittings for Polyethylene Plastic Pipe and Tubing

ASTM D-3350-14; Standard Specification for Polyethylene Plastics Pipe and Fittings Materials
ASTM D-2774-04; Standard Practice for Underground Installation of Thermoplastic Pressure Pipe.

ASTM F-1055-98 (Reapproved 2006); Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene Pipe and Tubing.

ASTM F-1248-96; Standard Test Method for Determination of Environmental Stress Crack Resistance of Polyethylene Pipe

ASTM F-1473-01e1; Standard Test Method for the Notch Tensile Test to Measure Crack Growth Resistance of Polyethylene – PE Notch test.

ASTM F1973-2013 Edition; Standard Specifications for Factory Assembled Anodeless Risers and Transition Fittings

ASTM F-2897-15a; Standard Specification for Tracking and Traceability Encoding System of Natural Gas Distribution Components (Pipe, Tubing, Fittings, Valves, and Appurtenances)

ASTM F1924-12; Standard Specification for Plastic Mechanical Fittings for Use on Outside Diameter Controlled Polyethylene Gas Distribution Pipe and Tubing

ASTM F1948-12; Standard Specification for Metallic Mechanical Fittings for Use on Outside Diameter Controlled Thermoplastic Gas Distribution Pipe and Tubing

1.3 Plastic Pipe Transition Fittings Covered By This Specification.

CPS Material No.	Description
1016102	¾" PE TRANSITION FITTING
1016103	1" PE TRANSITION FITTING
1016104	1-¼" PE TRANSITION FITTING
1016105	2" PE TRANSITION FITTING
1016106	4" PE TRANSITION FITTING
1016239	6" PE TRANSITION FITTING
1032895	8" PE TRANSITION FITTING

2.0 CONSTRUCTION

Transition Fittings. Plastic pipe to steel pipe transition fittings shall be factory assembled, pull out resistant, seal tight with pressure and have a tensile strength greater than the plastic pipe.

2.1 Steel End. The steel end shall be Schedule 40 API 5L Grade A25, B or X-42 or ASTM A53 steel line pipe or equivalent.

2.2 Plastic End. The plastic end PE pipe shall be one continuous piece of PE 3408 polyethylene pipe manufactured in accordance with ASTM D2513. The polyethylene pipe must be Driscopipe 8100 or Driscopipe 8300 manufactured by Phillips Driscopipe, Inc. All sizes shall be Iron Pipe Size (IPS). All PE pipe shall be SDR 11.

2.3 Internal Plastic Pipe. The internal PE pipe shall be one continuous piece of PE 3408 polyethylene pipe manufactured in accordance with ASTM D2513. The polyethylene pipe must be Driscopipe 8100 or Driscopipe 8300 manufactured by Phillips Driscopipe, Inc. All sizes shall be Iron Pipe Size (IPS). All PE pipe shall be SDR 11.

2.4 Coating. The steel pipe shall be coated with a minimum of 10 mils of 3M Scotchkote or equivalent, fusion bonded epoxy coating of a light gray color. The steel to be coated, except that 2 to 6 inches of the steel shall remain bare at the end for welding purposes.

2.5 End Caps. The plastic end and steel end on the transition fitting shall be furnished with protective end caps.

2.6 The transition fitting shall be a Category 1, Mechanical Fitting as defined in ASTM D2513, ASTM F1948, and ASTM F1924.

3.0 DIMENSIONS

3.1 Dimensions for all plastic pipe transition fitting shall be determined as shown on Drawing No. 1 of this specification.

3.2 Horizontal Measure. The overall horizontal measure of each plastic pipe transition fitting shall (plastic to steel) shall be a minimum of 24" for the ¾" size and 36" for the 8" size.

The minimum horizontal measure shall be as follows:

Plastic Pipe Transition Fitting Size	Dimensional Data
¾"	24"
1"	24"
1-¼"	25"
2"	25"
4"	27"
6"	36"
8"	36"

4.0 INSPECTION AND TESTING

4.1 Inspection. Plastic pipe transition fittings will be subject to inspection at the point of delivery by a designated CPS Representative to assure compliance with CPS requirements.

4.2 Testing. All plastic pipe transition fitting shall be tested to minimum 125 psig by the manufacturer.

5.0 SHIPPING INSTRUCTIONS

5.1 Delivery Ticket. A delivery ticket must be furnished with each delivery by the carrier. The delivery ticket must show the CPS Purchase Order number and the number of packages being delivered to CPS.

5.2 Packing List. A packing list must be furnished with each delivery to CPS. The packing list must include the CPS Purchase Order number, a description of the plastic pipe transition fitting, and the total number of each size plastic pipe transition fitting.

6.0 GENERAL INSTRUCTIONS

6.1 Ordering Information. All requisitions, Requests for Quotation, and Purchase Orders for plastic pipe transition fitting covered by this specification shall contain the following information:

6.1.1 CPS material number

6.1.2 Brief description of plastic pipe transition fitting

6.1.3 Number of each size plastic pipe transition fitting required

6.1.4 Material delivery destination

6.1.5 Required delivery date

6.1.6 Reference to this specification by number and latest date

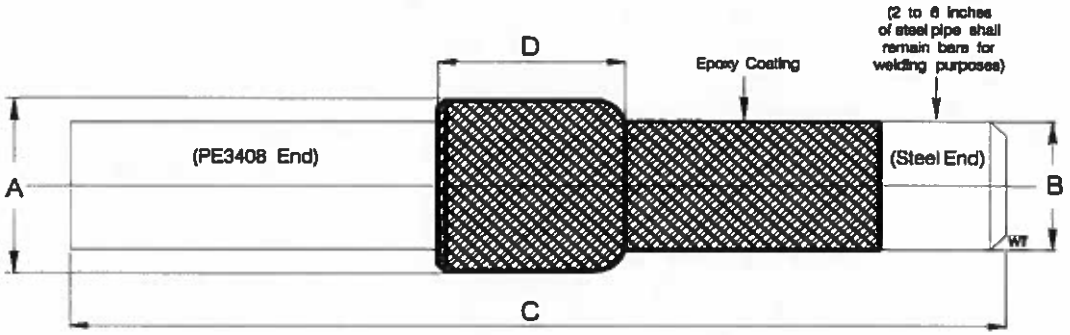
6.2 Copies of This Specification. Copies of this specification must be obtained from the Purchasing Division of CPS.

6.3 Exceptions. Any and all exceptions to this specification must be listed individually and accompany the quotation. If there are no exceptions, the words "NO EXCEPTIONS" must appear on the quotation.

7.0 MARKINGS

7.1 All materials shall be marked in accordance with ASTM D-2513 and ASTM F-2897.

PLASTIC PIPE TRANSITION FITTING



Nom. Pipe Size	CPS Energy Material No.	CU I.D.	STEEL END OD (in.) B	STEEL END WT (in.)	STEEL END Pipe Grade	Dimensional Data* (Inches) A	Dimensional Data* (Inches) C	Dimensional Data* (Inches) D	PE END Avg. O.D. at Point of Fusion (in.)	PE END Minimum Wall Thickness (in.)	PE END PE Material Grade	Approx. Weight (lbs.)
3/4	1016102	TFSP34	1.050	.113	B	1.35 ± 0.10	24.19 ± 1.81	1.42 ± 0.11	1.050	.095	P34	1 – 2
1	1016103	TFSP1	1.315	.179	B	1.82 ± 0.12	24.25 ± 1.75	1.84 ± 0.14	1.315	.119	P34	2 – 3
1-1/4	1016104	TFSP1-1/4	1.667	.140	A-25	2.10 ± 0.13	25.07 ± 0.57	1.89 ± 0.12	1.660	.151	P34	3 – 4
2	1016105	TFSP2	2.375	.154	B or X-42	2.58 ± 0.18	25.88 ± 1.13	2.06 ± 0.28	2.375	.216	P34	5 – 6
4	1016106	TFSP4	4.500	.188	B or X-42	5.00 ± 0.22	26.69 ± 0.25	3.38 ± 0.38	4.500	.409	P34	18 – 28
6	1016239	TFSP6	6.626	.280	B or X-42	7.27 ± 0.24	36.75 ± 3.25	4.88 ± 1.38	6.625	.603	P34	26 – 54

Notes:

1. Dimensional Data and approximate weight ranges are for CPS Energy approved manufacturers.
2. Steel pipe shall be manufactured in accordance with API 5L or ASTM A-106.
3. PE3408 pipe shall be manufactured in accordance with ASTM D-1248.
4. Steel to be coated, except that 2 to 6 inches of steel pipe shall remain bare at the end for welding purposes.

G-S-530-1-0	CPS ENERGY CONSTRUCTION STANDARD (GAS)	Originator: Gas Engineering
Dwg. 1 of 1		Issue Date: 6-5-80
		Revision Date: 3-31-05