FOUR RIVERS
NUCLEAR PARTNERSHIP, LLC

December 2, 2025

The Four Rivers Nuclear Partnership (FRNP), in support of the Department of Energy Portsmouth/Paducah Project Office (PPPO), is seeking information on Automated Cutting System for Converter

THIS IS A REQUEST FOR INFORMATION (RFI) ONLY. This RFI is issued solely for information and planning purposes – it does not constitute a Request for Proposal (RFP) or a promise to issue an RFP in the future. This request for information does not commit the FRNP to contract for any supply or service whatsoever. Further, FRNP is not at this time seeking proposals and will not accept unsolicited proposals. Respondees are advised that the FRNP will not pay for any information or administrative costs incurred in response to this RFI; all costs associated with responding to this RFI will be solely at the interested party's expense. Not responding to this RFI does not preclude participation in any future RFP, if any is issued. If a solicitation is released, it will be sent to the qualifying Contractor

The work will be performed under NAICs code: 562910

Automated Cutting System for Converter Segmentation

Work Scope:
Develop or provide an automated method of cutting process converters (i.e. large steel pressure vessels) into pieces while ensuring safety of workers in the area. This method will require cutting the equipment while on a roller stand, leaving no cut tabs as required for hoisting and rigging installation, to facilitate removal of individual sections of the converter (e.g. end caps, internal components, half shells, etc.).
Work area is bounded by a dust collection system and is approximately 30' long x 24' wide x 18' tall in size (ref. Attachment 2 for details).

Experience: If you have any relevant experience in this area, please provide.

Specifications:
The converters to be segmented at the PGDP site come in a variety of sizes, up to and including approximately 13' in diameter by 24' in length. Attachment 1 provides sizing details for the various converter types and identifies typical cutting locations.

Cuts to be made include a combination of circumferential cuts (made in conjunction with a stand designed to rotate the converters around the longitudinal axis) and longitudinal cuts. The converter shells are typically fabricated from 5/8" thick mild carbon steel with a 0.003" thick nickel internal liner. Additionally, there are both internal and external stiffening rings that increase the required cutting thickness to ~2" in those locations.

Given the placement of converters on a roller stand for the performance of cutting activities, the automated system must be capable of working at elevations up to and including 12’ above the finished floor. Most circumferential cuts are currently made at a lower elevation of approximately 3-4’ above the floor (while rotating the converters on the stand), but there are also two longitudinal cuts made at the centerline of the converters (with the rollers turned off) at an elevation of ~9-10’ above the floor.

Converters contain sensitive internal components that must be protected from hot cutting slag/ debris. This is currently achieved through the insertion and use of “kerf shields” once end caps and other miscellaneous internal components have been removed to provide access for the shields. The expectation is that any automated system will work in a complementary fashion with these shields or provide a separate means of preventing introduction of significant heat to the interior of the converters.

Utilities currently available:
- Compressed air at 100+ psig and -40F dew point or lower
- 480VAC/60Hz/3Ph supply power at 60 amps (may re-configure supply from main breaker if more amperage is required)

Discussions - FRNP representatives may or may not choose to discuss the RFI with interested parties. Such discussions would only be intended to get further clarification of potential capability to meet the
requirements.

Questions - Questions regarding this announcement shall be submitted by e-mail to FRNP Procurement department Amanda.Hatton@pad.pppo.gov. Verbal questions will NOT be accepted.

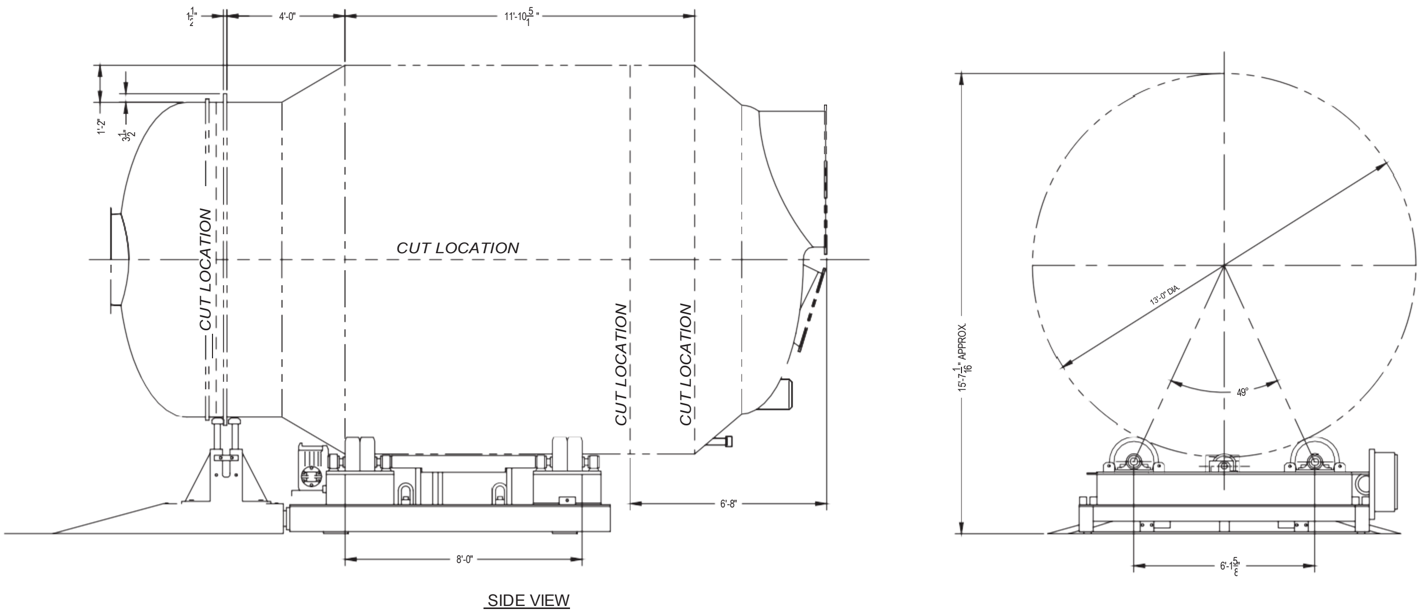
Responses - Responses should include the relevant experience in this area, Company name, address, SAM.GOV CAGE Number, small business size status, point of contact, point of contact email address and the point of contact phone number.

Response Due Date - 1/29/2026 COB

Attachment 1

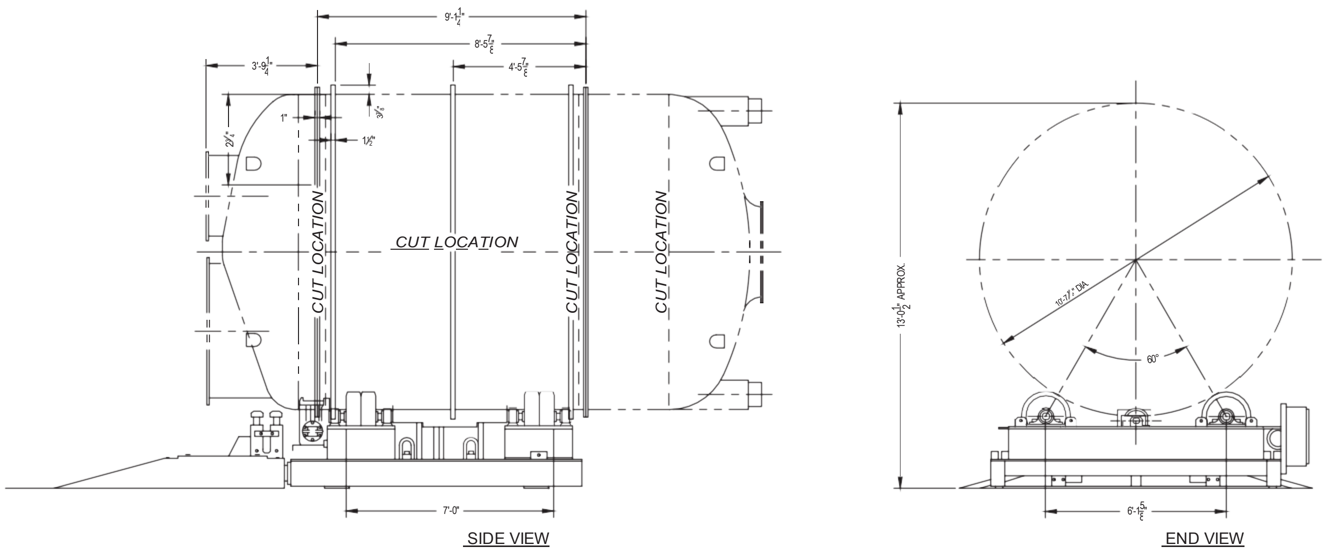
Converter Types, Sizes, and Cut Locations

ATTACHMENT 1.



GENERAL ARRANGEMENT DETAILS - UPRATED "000" COVERTER

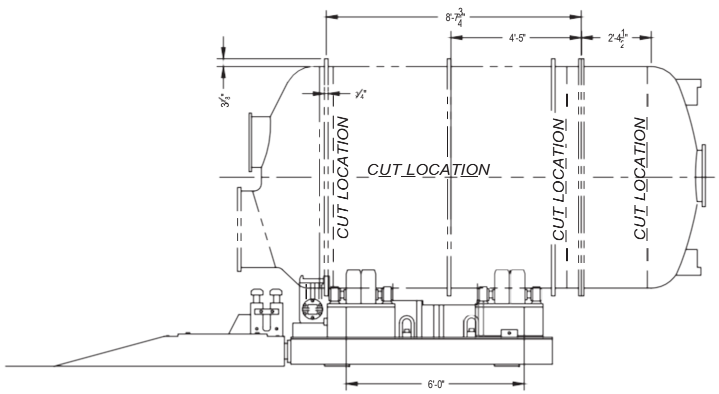
SCALE: 1/2" = 1'-0"



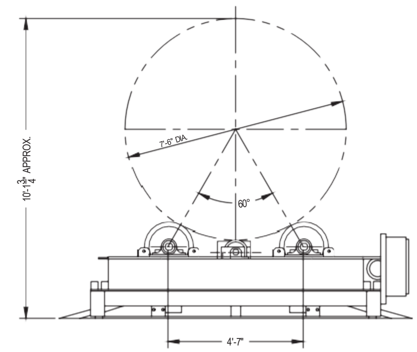
GENERAL ARRANGEMENT DETAILS - NON-UPRATED "000" COVERTER

SCALE: 1/2" = 1'-0"

converter roller cart figure.dwg



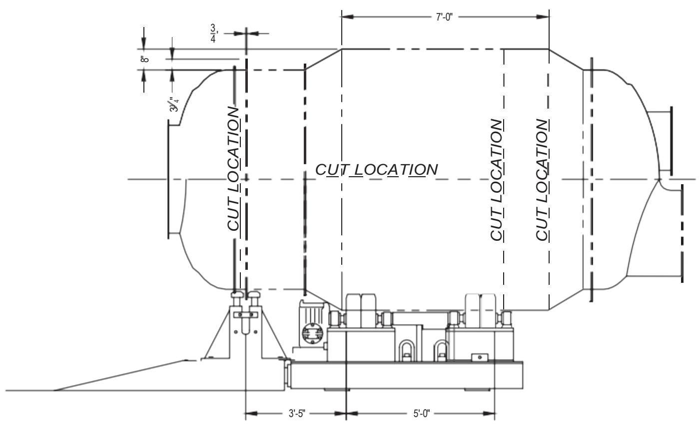
SIDE VIEW



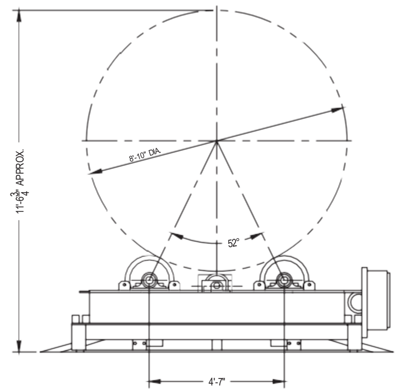
END VIEW

GENERAL ARRANGEMENT DETAILS - NON-UPRATED "00" COVERTER

SCALE: 1/2" = 1'-0"



SIDE VIEW



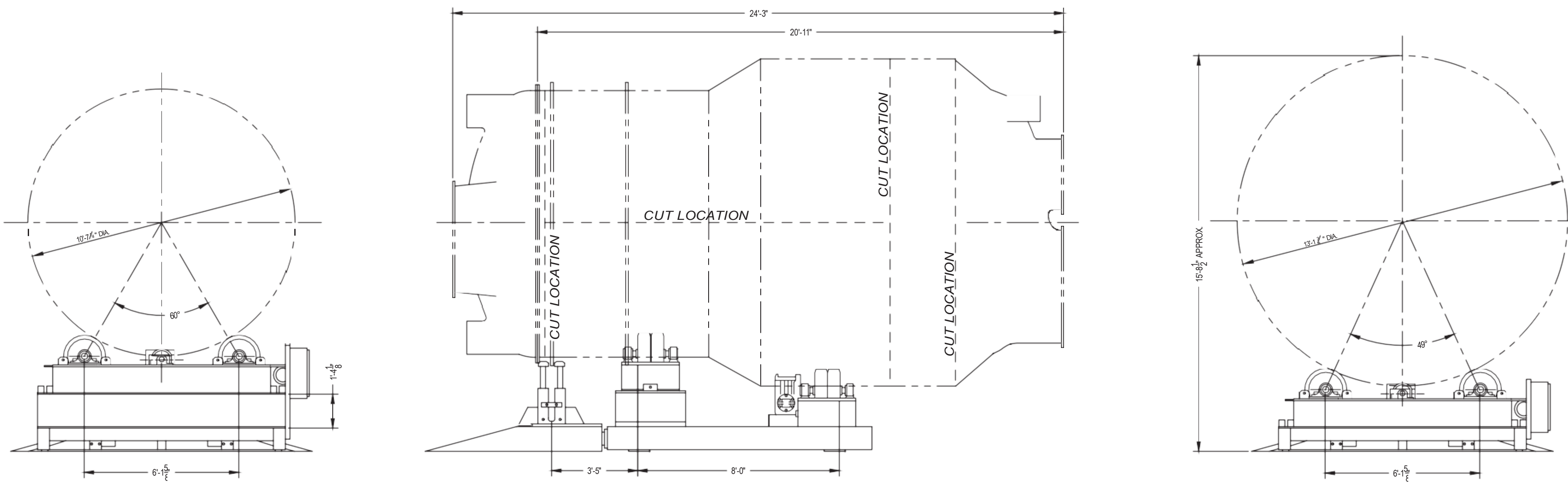
END VIEW

GENERAL ARRANGEMENT DETAILS - UPRATED T4 TYPE "00" COVERTER

SCALE: 1/2" = 1'-0"

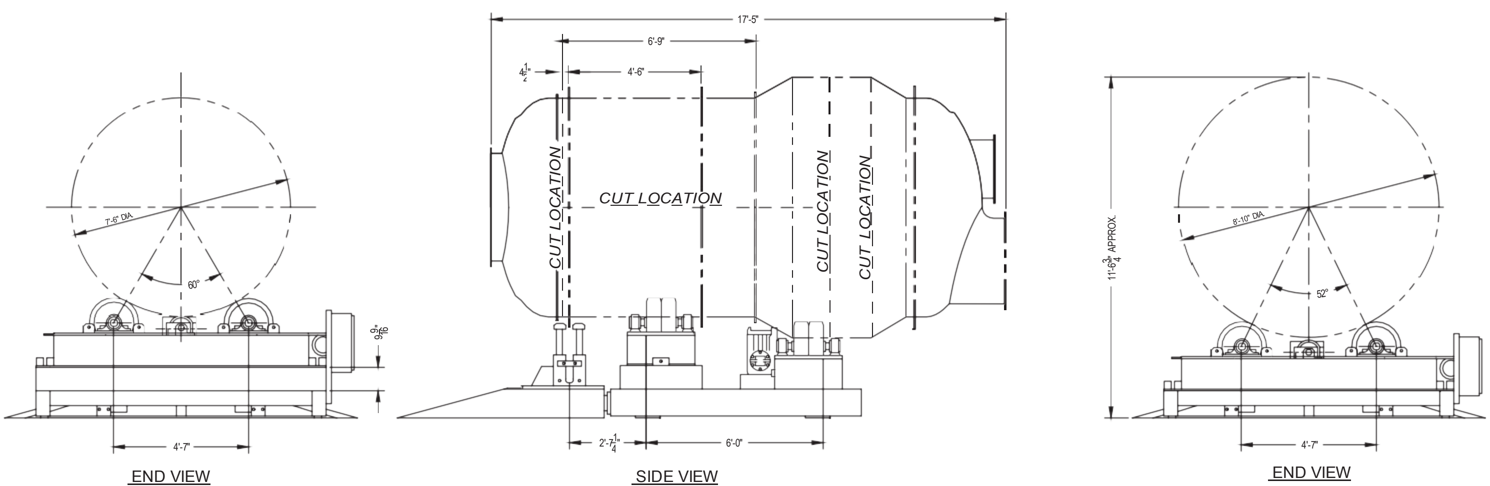
converter roller cart figure.dwg

ATTACHMENT 1



GENERAL ARRANGEMENT DETAILS - NON-UPRATED T4 TYPE "000" COVERTER

SCALE: 1/2" = 1'-0"



GENERAL ARRANGEMENT DETAILS - NON-UPRATED S.D. TYPE "00" COVERTER

SCALE: 1/2" = 1'-0"

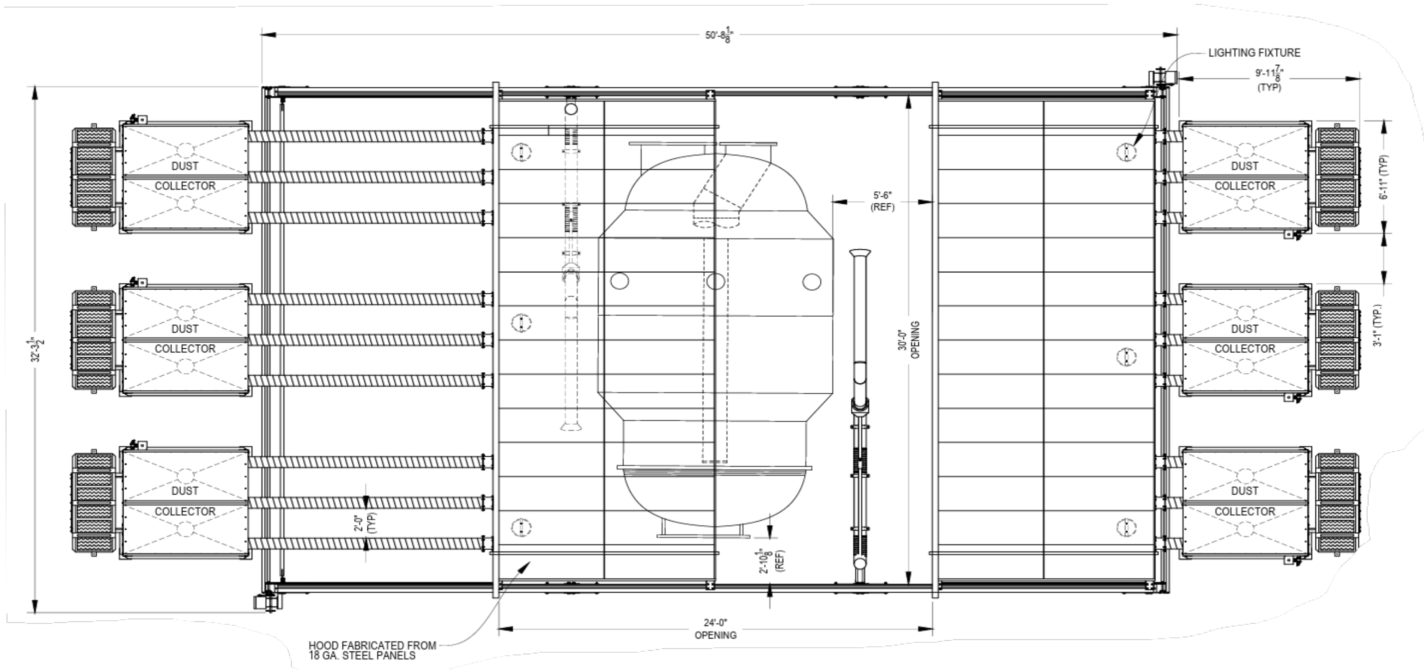
converter roller cart figure.dwg

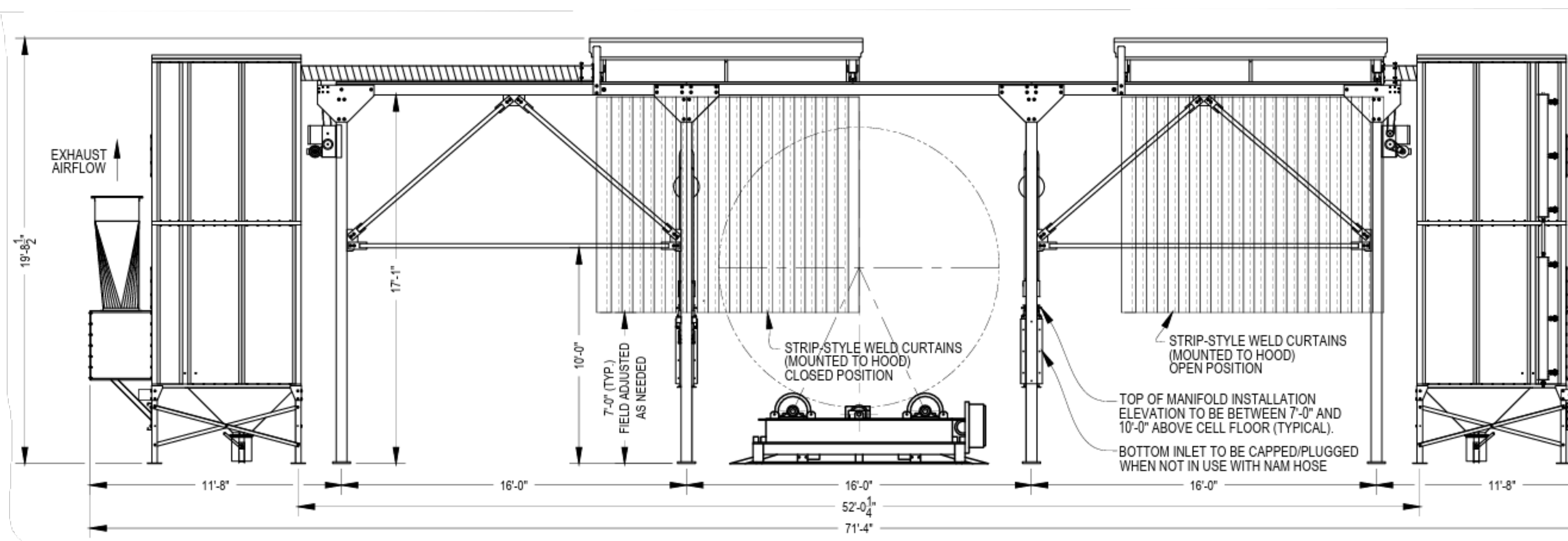
Attachment 2

Work Zone and Dust Collection System

Four Rivers Nuclear Partnership, LLC
5511 Hobbs Road
Kevil, KY 42053
www.fourriversnuclearpartnership.com

ATTACHMENT 2





ELEVATION