

RESPONDER INFORMATION

RESPONDERS MUST FILL IN APPROPRIATE SPACES AND BOXES BELOW.

1. Responder represents that he/she/it one of the following (check appropriate):
 - ☒ A regular dealer the product(s) and/or service(s) quoted upon
 - ☐ A manufacturer of the product(s) and/or service(s) quoted upon

2. Responder operates as:
 - ☐ An Individual
 - ☐ Partnership
 - ☒ Corporation, incorporated in the State of California
 - ☐ Other entity (specify): _____

Responder agrees to provide the requested service(s) and/or product(s) on the terms and conditions stated in the Response for 60 days following the deadline for receipt of responses.

Bay City Boiler & Engineering Co., Inc.

COMPANY NAME

Greg Schnable

CONTACT NAME

23312 Cabot Blvd.

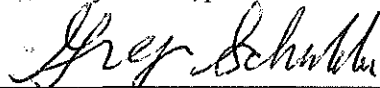
STREET ADDRESS

<u>Hayward</u>	<u>CA.</u>	<u>94545</u>
CITY	STATE	ZIP CODE
<u>(916) 624-1897 Sacramento Office</u>	<u>(916) 624-7987</u>	
PHONE NUMBER	FAX NUMBER	

greg@baycityboiler.com

E-MAIL ADDRESS

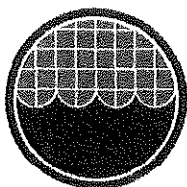
By signing this Request for Quotes (RFQ), signer represents that he/she has the authority to authorize this quote and to bind the party on whose behalf his/her execution is made, and certifies that all information provided on this form and contained within the quote are true. Signer acknowledges that if the quote contains any false statements, the County may declare any contract, purchase order or agreement made as a result of the quote to be void.



SIGNATURE OF PERSON AUTHORIZED TO SIGN RESPONSE

Greg Schnable-Sales Engineer

PRINT OR TYPE SIGNER'S NAME AND TITLES



BAY CITY BOILER & ENGINEERING CO., INC.

23312 Cabot Blvd. • Hayward, CA 94545
Phone • (510) 786-3711 • Fax (510) 786-3716

Repairs • Service • Installation • New Construction • Sales • 24 Hour Service

June 6, 2017

**Shasta County Dept. of Support Services-Purchasing Unit
RFQ #17-18-Provide Two Boilers to Jail
1450 Court St. Su. 348
Redding, CA. 96001**

In response to your request we are pleased to provide this proposal for the above subject.

PRECISION BOILER Model FTS "FLEXTUBE" Hot Water Boiler

Two (2) Model **FTH-4-50-150-PFN** Flex Tube Hot Water Boilers, 150 psig MAWP built in accordance with ASME Code Section IV for heating boilers. Each unit shall be inspected and stamped in accordance with the ASME Code and National Board Registered.

Each factory assembled boiler package includes inner casing, insulation, and outer casing. The insulation consists of ceramic fiber and fiberglass inner insulation and fiberglass insulation between inner & outer metal casings. The inner and outer casings are removable to permit access to the tubes for inspection and or replacement. The pressure vessel is set on a heavy structural steel base frame, which include two lifting lugs on each side. Flue gas connection is located on the top centerline of the boiler.

Unit features:

- 2,100 MBH Input / 1,720 MBH Output (De-rating & Label available as 1,500 MBH, if needed)
- 50 HP / Natural Gas
- Power Flame burner for standard emission Model CR2-G-20A, Modulating firing, 115V/1PH
- UL / CSD-1 compliance

Tappings and Connections:

- Stack connection @ 10" OD
- Bottom Drain connection @ 1¼" NPT
- Supply and Return Nozzle @ 4" FLG

Trim and Controls:

- Operating temperature control
- Operating control limit
- Operating control safety limit
- Pressure & temperature gauge
- Probe or float type low water cut off
- ASME safety relief valve
- Drain & Vent valves

Additional Features:

- CA. Code Auxiliary Probe-Type Low Water Cut Off
- Barometric Draft Damper
- Remote Enable/Disable
- BMS Remote Set-Point Control (4-20 mA)
- Onboard Alarm System
- Lead/Lag Control Panel- Heat Timer Mini-Mod to sequence & control boilers (loose for mount/wire by others)

Authorized A.S.M.E. Boiler & Pressure Vessel Code fabrication facility holding National Board Repair Stamp

CA State Lic # 320288 (C-4)

24 HOUR SERVICE



**BAY CITY BOILER
& ENGINEERING CO., INC.**

Estimated total shipping weight: 4,200 lbs each

Total shipping pieces: (1)

F.O.B. Origin Morristown, TN. With Full Freight Allowed

Approximate delivery: 10-12 weeks after approval and release to production. Delivery based on current levels of production

Drawings: 14 days after receipt of firm Purchase Order

CLARIFICATIONS: Section 23 50 00 specifications reviewed & quote seems to be in conformance for performance; 2.2A-1, we describe H Stamp as 150 psig vs. 160 psig

BOIL OUT

The supply and disposal of boil-out chemicals is not included in our proposal. We do not provide boil out services and you will be required to coordinate with your local chemical supplier to provide the necessary chemicals and services.

START-UP SERVICE

Start-up and commissioning includes the services of our service engineer to supervise starting, adjusting and testing the above listed equipment and to instruct operating personnel in the proper operation and maintenance of the equipment. This service is to be performed when the equipment is completely installed and ready to operate with the operator available to fire the equipment and receive the instructions. Start-up services must be scheduled 2-weeks prior to the requested date for start-up

PRICING

System as described above for two boilers: \$71,116.11 plus 7.25% tax=\$75,776.77

OPTION:

- BACnet Interface via RM7800L and Protonode - \$2,665 to interface both boilers, if required

Freight: Ex-Works Factory with freight allowed to jobsite, offloading and installation by others.

Taxes: sales tax added & included.

Delivery: 10 – 12 Weeks A.R.O.

Warranty

Standard manufacturer's warranty to include parts only, labor is not included. Standard manufacturer's warranty to cover twelve (15) months from date of shipment. Boiler vessel warranted for 25 years non-prorated against thermal shock within normal operation as per Precision Boiler O&M.

Sincerely,

Greg Schnable

Greg Schnable

Sales Engineer (916) 624-1897 Sacramento Office

This proposal is based on the following Qualifications, Terms & Conditions.

1. Equipment Payment Terms:
 - ❖ 25% Down Payment
 - ❖ 70% - Net 30 Days upon shipment from Factory

Authorized A.S.M.E. Boiler & Pressure Vessel Code fabrication facility holding National Board Repair Stamp

CA State Lic # 320288 (C-4)

24 HOUR SERVICE



**BAY CITY BOILER
& ENGINEERING CO., INC.**

❖ 5% - Net 30 Days after Start-up

2. This proposal is valid for 60 days, unless otherwise specified.
3. Payment terms are net 30 days on all invoices unless otherwise agreed to. We reserve the right to suspend or terminate any further work in the event payment is not made when due.
4. This proposal is contingent upon approval of the customer's credit.
5. The proposal does not include any engineering, design, structural or seismic calculations unless specifically identified in the scope of work.
6. This proposal assumes that existing valves necessary to isolate the equipment to enable us to perform our work are in good working order. Any demobilization/remobilization costs resulting from failure of customer's valves to allow proper isolation will be charged to the customer.
7. We do not assume responsibility or give any warranty for equipment which is not of our own manufacturer, except to extend to customer any express warranty of the original equipment manufacturer, which may be so extended.
8. We warrant that our work shall be performed in a good and workmanlike manner, shall be of good quality, and free from faults and defects. The term of our warranty is one year from the date of substantial completion of the work.
9. This proposal is based upon our standard general liability insurance limit of \$1,000,000. Additional insurance is available and can be priced upon request.
10. We exclude all permits except those specifically identified in the scope of work.
11. We shall have no obligation to perform any work that would require the handling of or exposure to hazardous materials, including but not limited to asbestos and lead paint. We will require a copy of the asbestos and lead paint survey prior to starting the work.
12. This proposal assumes straight time, normal weekdays, Monday through Friday, between the hours of 7:00AM and 3:30 PM, unless otherwise specified.
13. This proposal assumes that temporary power and water will be provided by others.
14. The payment schedule shall be monthly in an amount equal to the value of the work completed to date, including equipment and materials stored on site. A schedule of values will be submitted upon acceptance of this proposal quantifying major milestones of the project and the values of each such milestone.
15. We reserve the right to take action to collect any invoice which is not paid when due. Any costs incurred in the collection of past due amounts including, but not limited to, attorney fees and expenses, shall be paid by the Customer. We also assess a late payment SERVICE CHARGE of 1.5% on the day following the due date and monthly thereafter against all amounts remaining unpaid on each such date.
16. Consequential Damage Waiver – In no event shall Bay City Boiler and Engineering Company, Inc. be liable to you or any person, corporation or other type of legal entity for any special, direct, indirect, incidental, liquidated or consequential damage of any kind, including but not limited to, loss of products, loss of time, loss of use, loss of production, loss of savings or revenues, cost of replacement goods, labor costs or other charges in connection with product use or malfunction, the repair or replacement of defective parts whether such claims are alleged in strict liability, negligence, tort, contract or otherwise and even if Bay City Boiler and Engineering Company, Inc. is informed in advance of the possibility of such damages.

Contract Accepted By

Date

Please Print Name Here

Contract P. O. # _____

(Send copy of purchase order)

Authorized A.S.M.E. Boiler & Pressure Vessel Code fabrication facility holding National Board Repair Stamp

CA State Lic # 320288 (C-4)

24 HOUR SERVICE



FTH OPTIONAL EQUIPMENT

- Wide Choices of Burners
- Left Hand or Right Hand Tube Configuration
- Field Erectable
- Supply or Return Temperature Indicators
- Float-Type Low Water Cutoffs
- Stack Thermometer/Temperature Sensor
- Indoor-Outdoor Temperature Control
- Day-Night setback Controls
- Audible Alarm & Silencing Switch
- Lead-Lag Sequencing Systems
- Annunciators & Communication Interfaces
- Linkage-less Burner Control Systems
- Higher design pressures
- Oxygen Trim Control Package
- Low NOx Burner (<30ppm / < 10ppm)
- High Altitude Design (to 12,000 ft.)
- FM IRI, CSD-1, NFPA-8501, SCAQMD
- Main Electrical Disconnect Switch
- Flow Switch (with or without Time Delay)
- High Flue Temperature Cutoff/Alarm
- TEFC & High Efficiency Motors
- Many more options to meet specific requirements
- HTD - High Turn Down Burners

FTH, FLEXTUBE GAS/OIL FIRED HOT WATER BOILERS

GENERAL

HIGH EFFICIENCY BOILERS FOR HEATING OR PROCESS APPLICATIONS

Sizes Range From 25 BHP- 500 BHP (1050 MBH- 21,000 MBH Input)

- PRECISION **FTH Series** are "Flex-Tube" forced draft hot water boilers noted for their small footprint and high fuel-to-output efficiency, exceeding **82%-85%** for gas and **86%** for oil.
- PRECISION **FTH Series Boilers** utilize 1 1/2" OD tubes in a serpentine tube configuration designed to absorb thermal shock. The pressure vessel is warranted against thermal shock damage for a period of 25 years. This design accommodates up to 150°F temperature differences from the supply and return, offers virtually instantaneous hot water.
- PRECISION **FTH-1 thru 3 Series Boilers** utilize a unique 5-pass tube design with upper and lower headers located on the left or right side. The serpentine bends insure an even flow of gases through the heat transfer area of the boiler as well as equal water flow. The serpentine bends also create tangent water walls on all but one side of the combustion chamber. An upper plenum plate diverts the flue gases to the burner end to facilitate flue gas recirculation.
- PRECISION **FTH-4 thru 6 Series Boilers** the furnace is fully water cooled on all four sides.
- PRECISION **FTH Series** hot water boilers are designed with the return in the lower header and the supply in the upper header. This allows the water to circulate equally through the tubes with positive circulation.

FTH STANDARD FEATURES

- Flex-Tube design with mechanical or welded tube attachments
- Electronic Combustion Control with Off-On, Low-High off, Low-High-Low, or Modulating Firing
- Inspection Opening in lower drum for easy access and cleaning
- Power Flame forced draft burners (AS Standard)
- Totally encased rear downcomer

FTH STANDARD BOILER TRIM

Hot Water Boilers

(Standard Design Pressure 150 psig)

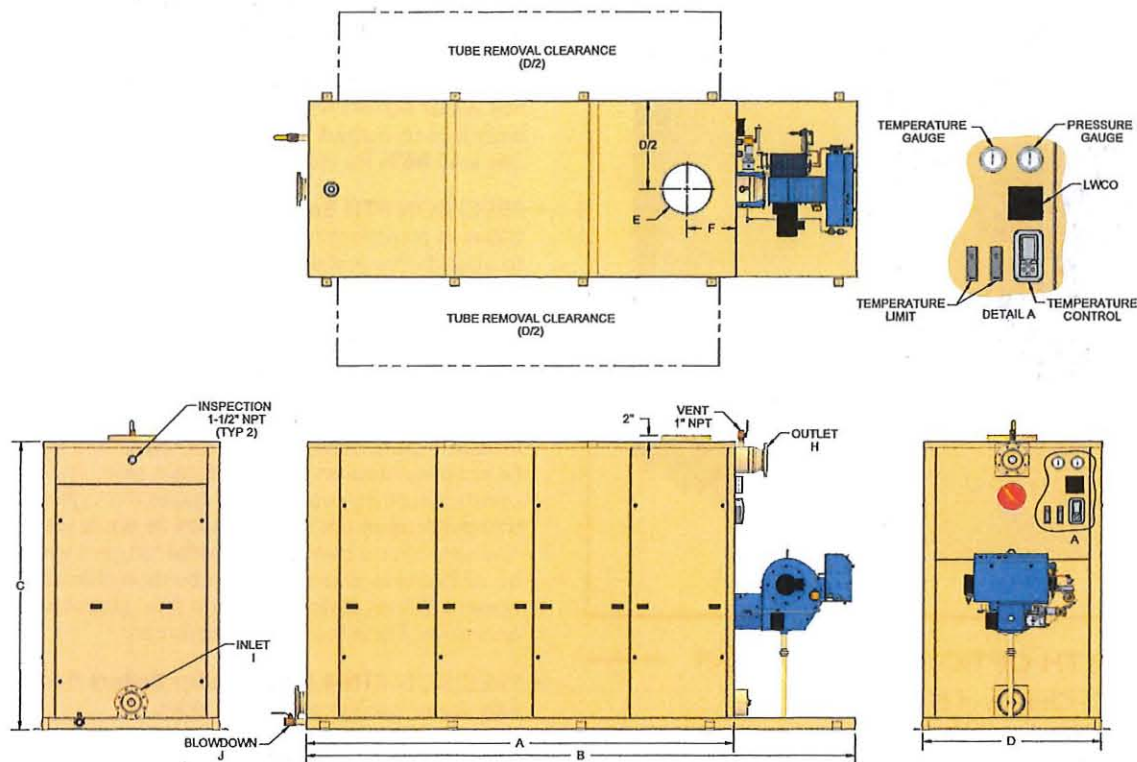
- Operating Temperature Control
- High Temperature Safeties
- Pressure & Temperature Gauges
- Probe-Type Low Water Cutoff
- ASME Safety Relief Valve
- Drain & Vent Valves



PRECISION BOILERS

FTH, FLEXTUBE GAS/OIL FIRED HOT WATER BOILERS

STANDARD TRIM PRESSURES: 30, 50, 75, 100, 125 & 150 PSI



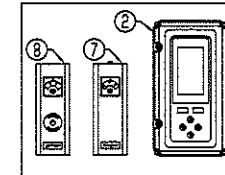
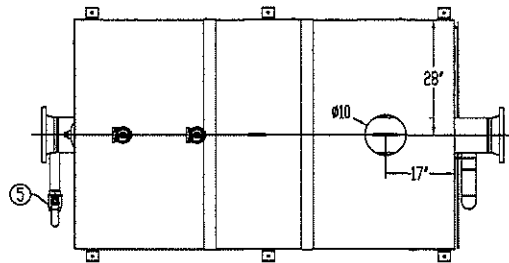
FTH 4, 5 & 6 SERIES PHYSICAL DATA

BOILER MODEL #		FTH-4-50	FTH-4-100	FTH-5-150	FTH-5-200	FTH-5-250	FTH-5-300	FTH-6-350	FTH-6-400	FTH-6-450	FTH-6-500
NOMINAL HP		50	100	150	200	250	300	350	400	450	500
INPUT	MBH	2,100	4,200	6,300	8,400	10,500	12,600	14,700	16,800	18,900	21,000
OUTPUT	MBH	1,720	3,440	5,170	6,890	8,610	10,330	12,050	13,780	15,500	17,220
SHIPPING WT (approx)	LBS	4,200	6,200	8,700	10,700	12,200	13,700	16,000	17,500	19,000	20,500
OPERATING WT (approx)	LBS	4,750	7,160	10,190	12,580	14,420	16,270	19,080	20,950	22,830	24,710
WATER CONTENT	GAL	66	116	180	180	268	310	371	416	462	507
A CASING LENGTH	IN.	65	90	119	144	169.5	194.5	194.5	219.5	245	270
B OVERALL LENGTH	IN.	97	126	159	186	210	235	237	262	294	319
C CASING HEIGHT	IN.	78	78	90	90	90	90	107	107	107	107
D CASING WIDTH	IN.	56	56	68	68	68	68	79	79	79	79
E FLUE DIAMETER	IN.	10	14	16	18	20	20	24	24	24	24
F FLUE LOCATION	IN.	17	17	21	21	21	21	29	29	29	29
H OUTLET	NPT	4F	6F	8F	8F	8F	8F	10F	10F	10F	10F
I INLET	NPT	4F	6F	8F	8F	8F	8F	10F	10F	10F	10F
J BLOWDOWN	NPT	1 1/2	1 1/2	2	2	2	2	2	2	2	2

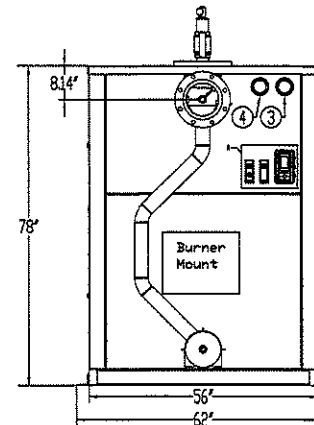
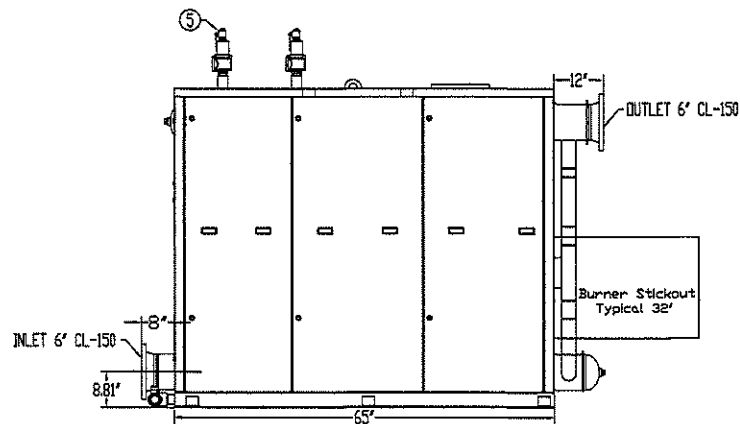
Overall length is approximate and is dependent on length of actual burner used. "F" Indicates Flanged Connection

#Suffix Model Number by desired max operating pressure and burner designation (eg, FTH-1-50-150-PF-P = 50 BHP / 150 design / Power Flame burner / Propane)

*Rear downcomer is typically external to the boiler cabinet.
Model is shown with the footprint of the optional cabinet enclosure.



DETAIL "A"



*Burner model may be different to meet NOx requirements of specific jurisdictions.

ITEM	DESCRIPTION
1	POWERFLAME BURNER CR2-G-20A MOD "
2	TEMP CONTROLLER -40-248°F - HONEYWELL T775H
3	PRESSURE GAUGE -3-1/2" DIAL (0-300 psi)
4	TEMPERATURE GAUGE-3-1/2" DIAL (0-300 psi)
5	DRAIN - 1-1/2" BALL VALVE
6	RELIEF VALVE - CONBRACO 150 PSI
7	TEMP LIMIT, L4008A AUTO RESET (108°-240°F)
8	TEMP LIMIT, L4008E MANUAL RESET (130°-270°F)

NOTES

- 1) UNIT TO BE CONSTRUCTED PER ASME BOILER & PRESSURE VESSEL CODE, SECTION IV, "H" STAMPED & NATIONAL BOARD REGISTERED.
- 2) UNIT TO COMPLY WITH UL & CSD-1 REQUIREMENTS & SHALL BEAR UL LABEL
- 3) INPUT-2,100 MBH
OUTPUT-1,745 MBH
- 4) BURNER HIDDEN FOR CLARITY



**PRECISION
BOILERS**

FTH 4-50 2,100 P G 150
TYPE SIZE MBH BURNER FUEL PRESSURE

JOB NAME: Example for Shasta County

CO #

DRAWN: EMB DATE: APP'VD: DATE:

DWG. DESCRIPTION: DIMENSIONAL DRAWING

DWG. NO. FTH4050EAA-01 REV: 1



SUBSTITUTION REQUEST FORM

RFQ Number: 17-18
TWO (2) BOILERS

Proposed Substitution Request Forms must be submitted by 4:00 PM on May 25, 2017 to:

Shasta County Support Services, Purchasing Unit
1450 Court Street, Suite 348
Redding, CA 96001

PROPOSED SUBSTITUTION (Manufacturer, Model #, Name, Color, Etc):

Precision Boilers, Model FTH-4-50-150-PFNLN Flexible Watertube Boiler

History: ___ New Product ___ Available 2-5 Years ___ Available 6-10 Years X Available 10+ Years

Provide UL, ITS, WHI, (or other) listing / rating of proposed substitution:

UL listed package under listing #MH25998. Built per the guidelines of UL-795.

Attached data shall include, but not be limited to, product, specification, drawings, performance and test data adequate for evaluation of the request for the proposed substitution product and the specified product, with applicable portions of the proposed substitution and the specified product data clearly identified in a point-by point direct comparison chart. Incomplete form and attachments will result in rejection of substitution request.

Requestor shall address the following items on this Substitution Request Form. Use a separate attached sheet attached as needed:

1. Reason for not providing specified item:
The specified products are from a competing manufacturer. The products offered meet or exceed the intent of the specified equipment.
2. Is proposed substitution larger or smaller than specified product? X (Yes) ___ (No)
If yes, state size of substitute product:
The proposed substitution has as slightly larger footprint than the specified product. However, it has been confirmed per Keith Ritter of M-E Systems that the proposed equipment will fit in the proposed installation location.
3. Does proposed substitution weight less/more than specified product? X (Yes) ___ (No)
If yes, state weight of substitute product:
The proposed product is approximately 50 lbs heavier than the specified Bryan Boiler. The total approximate shipping weight of the proposed boiler is 4,200 lbs.

EXHIBIT D

4. Comparison between proposed substitution and specified product (Similarities / Differences)?


The proposed boiler is a 5-pass watertube type boiler. It is similar to the specified product in that it is a forced draft watertube boiler and its physical size is acceptable for the installation location. The proposed boiler offers advantages in its 4-sided water wall combustion chamber design protecting the combustion chamber with a water cooled surface on 4 sides. Similar to the Bryan Boiler, but unlike the specified Parker boiler, the Precision Boiler offers easily replaceable tubes. The tubes in the Precision design can be easily replaced without any field welding or rolling. All tubes are pressure fit at their connection points to the boiler's upper and lower drums.

5. Will proposed substitution affect delivery dates? ____ (Yes) ☒ (No)
If yes, ____ (Add) ____ (Deduct) ____ calendar days

INITIAL UNDERSIGNED CERTIFIES:

- PG Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
- PG Proposed substitution has same or better warranty as specified product.
- PG Proposed substitution has same or better maintenance service and availability of replacement parts as specified product.
- PG Proposed substitution will not affect or delay delivery.
- PG Claims for additional costs related to accepted substitution, which may subsequently become apparent, are hereby waived.
- PG The function, appearance and quality of the proposed substitution is equivalent or superior to the specified item.

The undersigned certifies that the above is accurate and correct.

Signature:  Patrick Godsey Greg Schnable

Company: Precision Boilers & our authorized local representative Bay City Boilers & Engineering Co.

Address: 5727 Superior Drive 23312 Cabot Blvd
Morristown, TN 37814 Hayward, CA 94545

Date: 5/25/2017

Telephone: (423)-335-8125 Patrick Godsey (916)624-1897 Greg Schnable

Attachments: ☒ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ Other (Describe):