

IMPACT

Inventory, Monitoring, Permitting, And Compliance Tracking Data System



2018 BEST PRACTICE - IMPACT

Version 10.1 | Build ID: 23.0.0

Welcome aqdim pact

[Tasks](#) | [Current Facility Inventory](#) | [Current Owner](#) | [Contacts](#) | [Applications](#) | [Emissions Inventories](#) | [Permits](#) | [Stack Tests](#) | [Compliance Reports](#) | [Inspection Reports](#) | [Ambient Monitoring](#)

[IMPACT Home](#) >

IMPACT Home

Facility Information

Facility ID: F026263	Facility Name: AQD Test Facility	District: District 1
Facility Type: Pipeline Station	Company Name: Wyoming Air Quality Division	County: Laramie
Physical Address: Section 22, 12N, 68W	City: Laramie County	
Lat/Long: 41.00000/-105.00000	PLSS: S22-T12N-R68W	

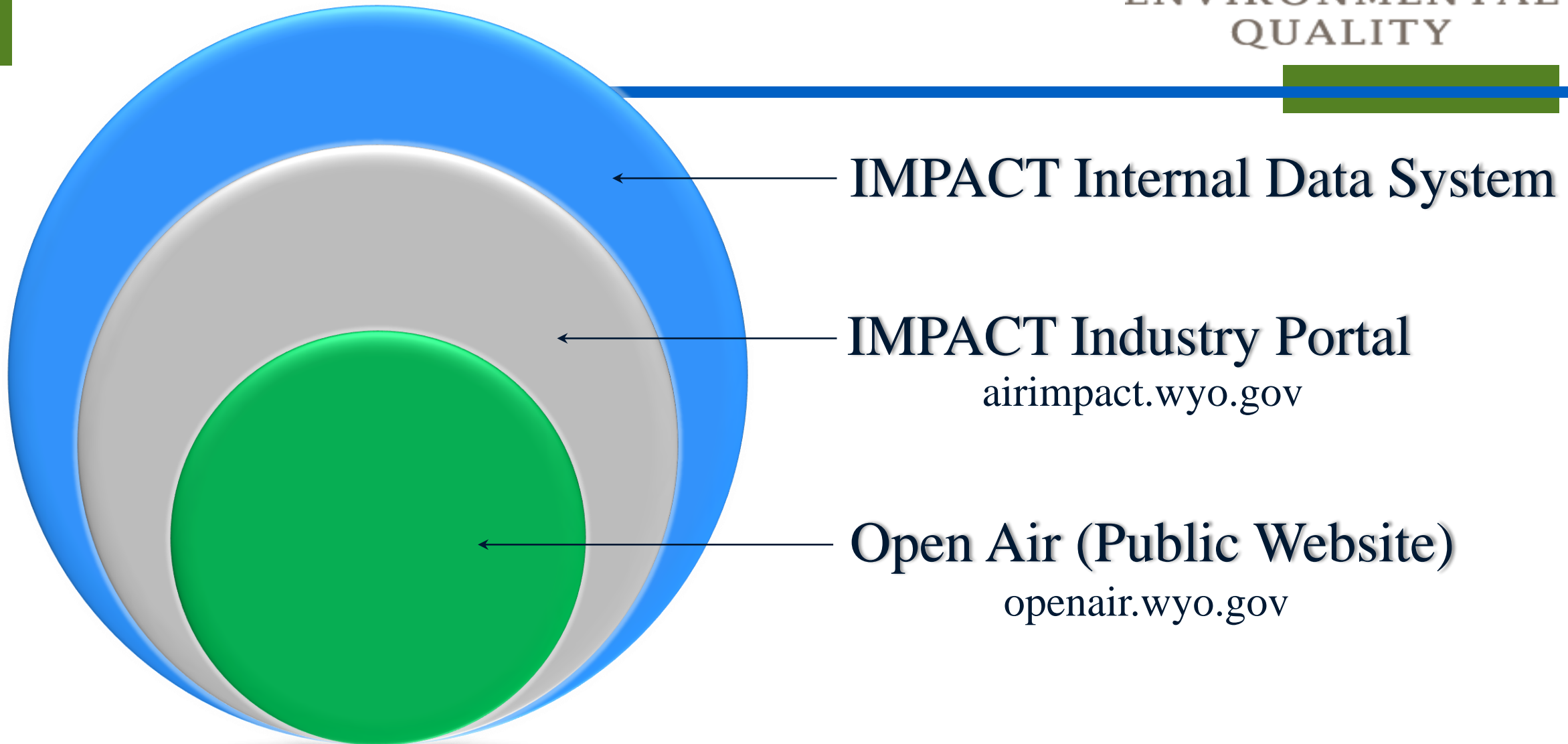
▼ In Progress Tasks

Select	Task Type	Task Description	Dependent on Task	Created Date	User Name
<div>Delete selected task(s)Printable viewExport to excel</div>					

IMPACT

- ◆ Developed through a collaboration with the State of Ohio Environmental Protection Agency (Ohio EPA).
- ◆ Designed to allow the Air Quality Division (AQD) of the Wyoming Department of Environmental Quality to:
 - Better manage the flow of information and data across all of its programs,
 - Provide better service to Industry and the Public,
 - Improve data quality, and
 - Offer increased transparency between the Division, Industry, and the Public.
- ◆ IMPACT represents a new way of conducting business electronically for the State - allowing the Division to shift its resources from performing data entry to data analysis.

Architecture of the IMPACT System



Benefits/Efficiency Gains

- ◆ Increase transparency of information within the AQD, between the AQD and regulated community, and to the public.
- ◆ Access to data, public records, and other information about Division-permitted facilities.
- ◆ Ability to submit data electronically, reducing/eliminating the need for paper.
- ◆ CROMERR compliant e-signature and electronic submission allows authorized users to submit from anywhere in the world (with an Internet connection).

Benefits/Efficiency Gains

- ♦ Validation of data submissions reduce requests for additional information.

ERROR	TNK102	<u>Emission unit: Attribute Capacity is not set.</u>
ERROR	TNK102	<u>Emission unit: Attribute Capacity Units is not set.</u>
ERROR	TNK102	<u>Emission unit: Attribute Material Type is not set.</u>
ERROR	TNK102	<u>Emission unit: Attribute Maximum Throughput is not set.</u>

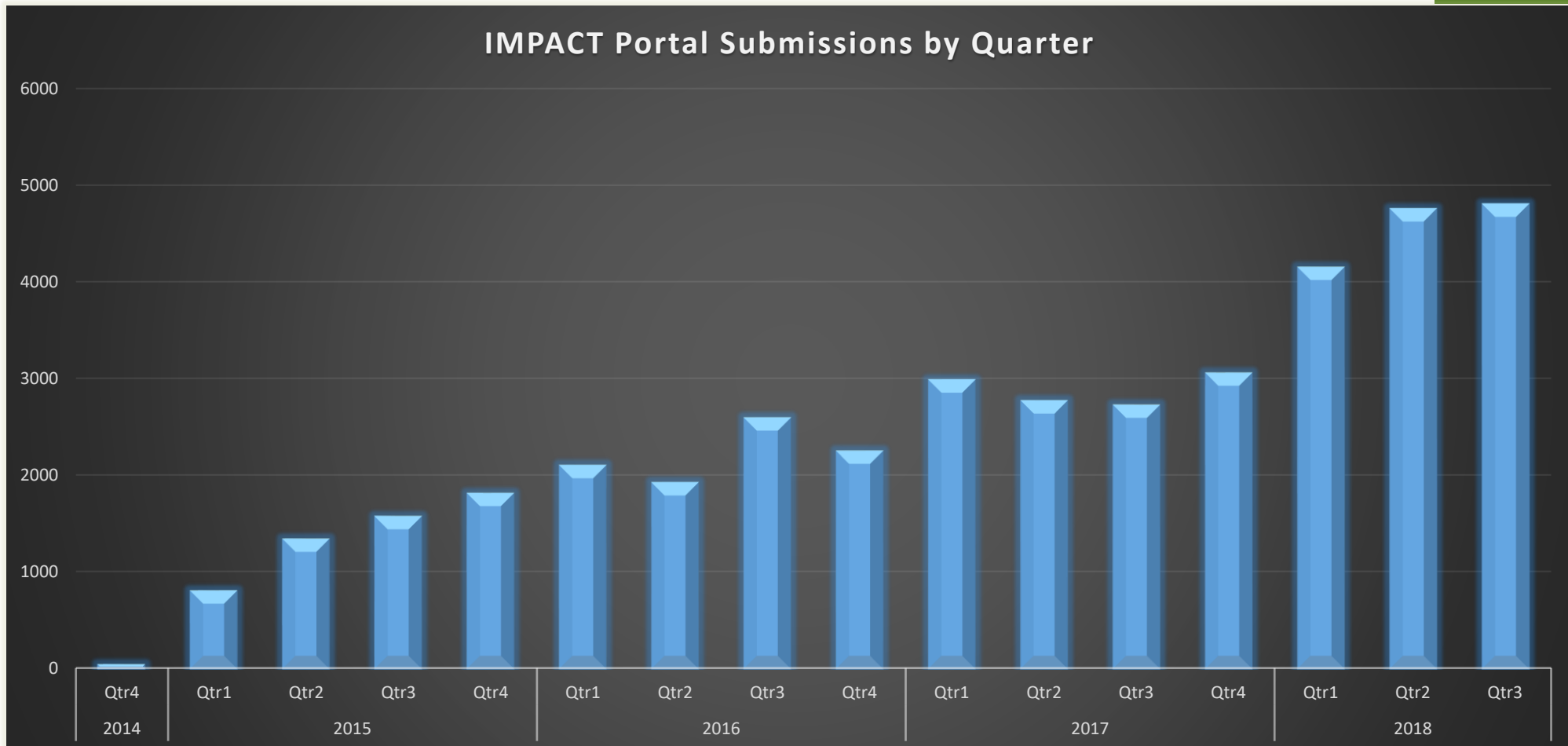
- ♦ Minimize repetitive data entry for reports, emissions inventories, and permit applications.

Benefits/Efficiency Gains

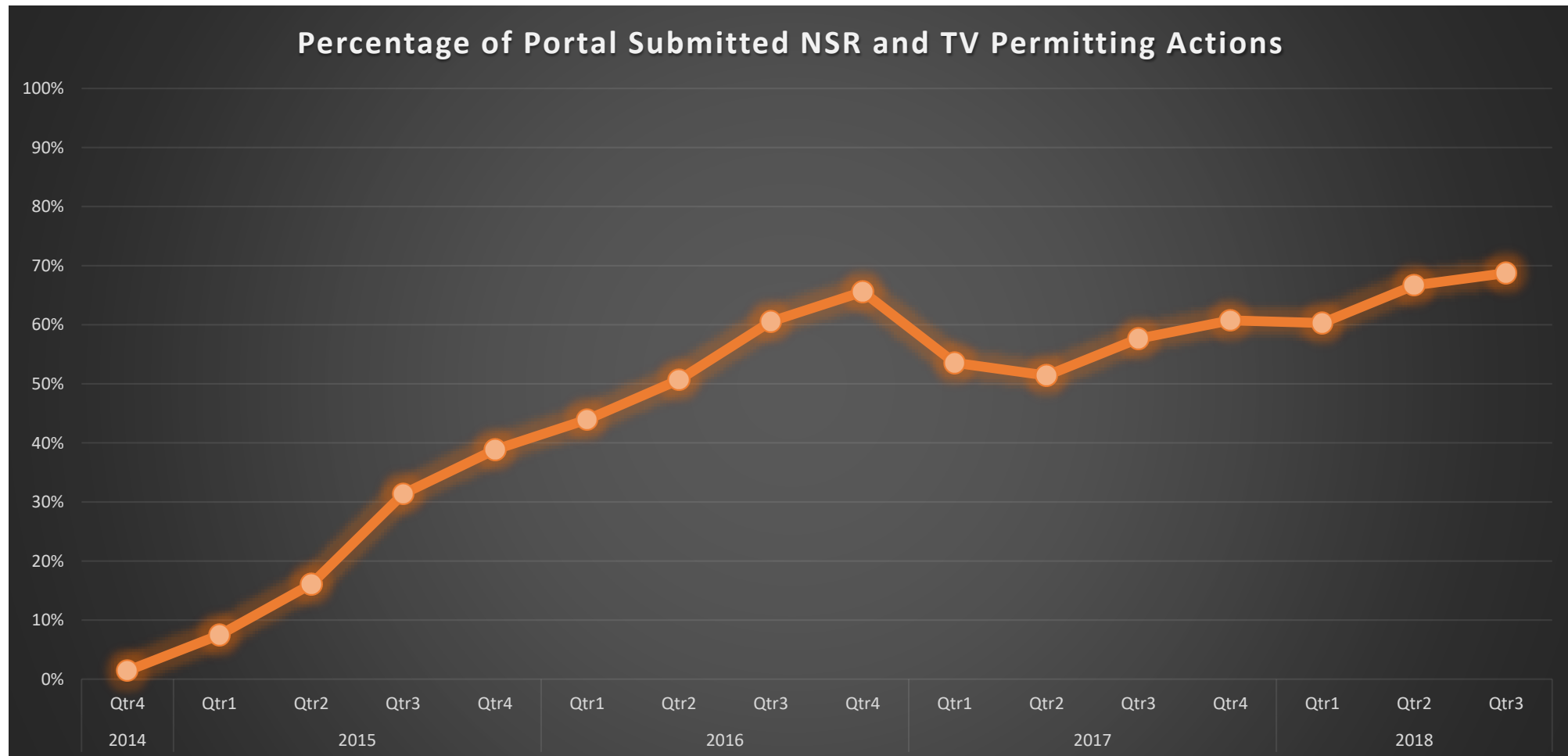
- ◆ Minimize air quality administrative permit processing and data entry times.
 - NSR permit issuance decreased by over 40 days when application is submitted electronically.
 - NSR waiver (authorization letter) issuance decreased by over 14 days when application is submitted electronically.
- ◆ Increase collaboration and communication with the Ohio EPA, Gila River Indian Community Air Quality Department (GRIC), and the Maricopa County Air Quality Department (MCAQD).

High Level Achievements

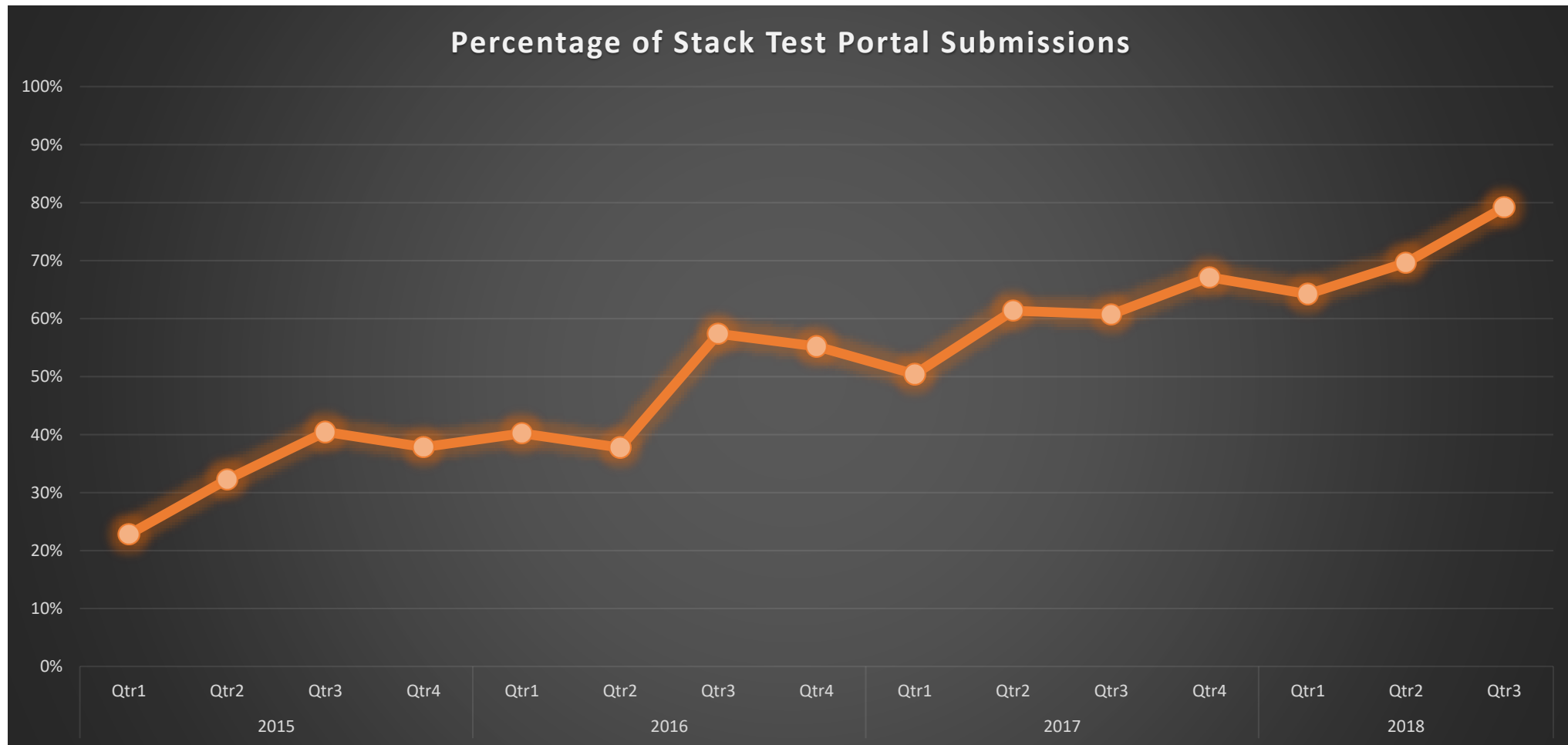
IMPACT Portal Submissions by Quarter



High Level Achievements

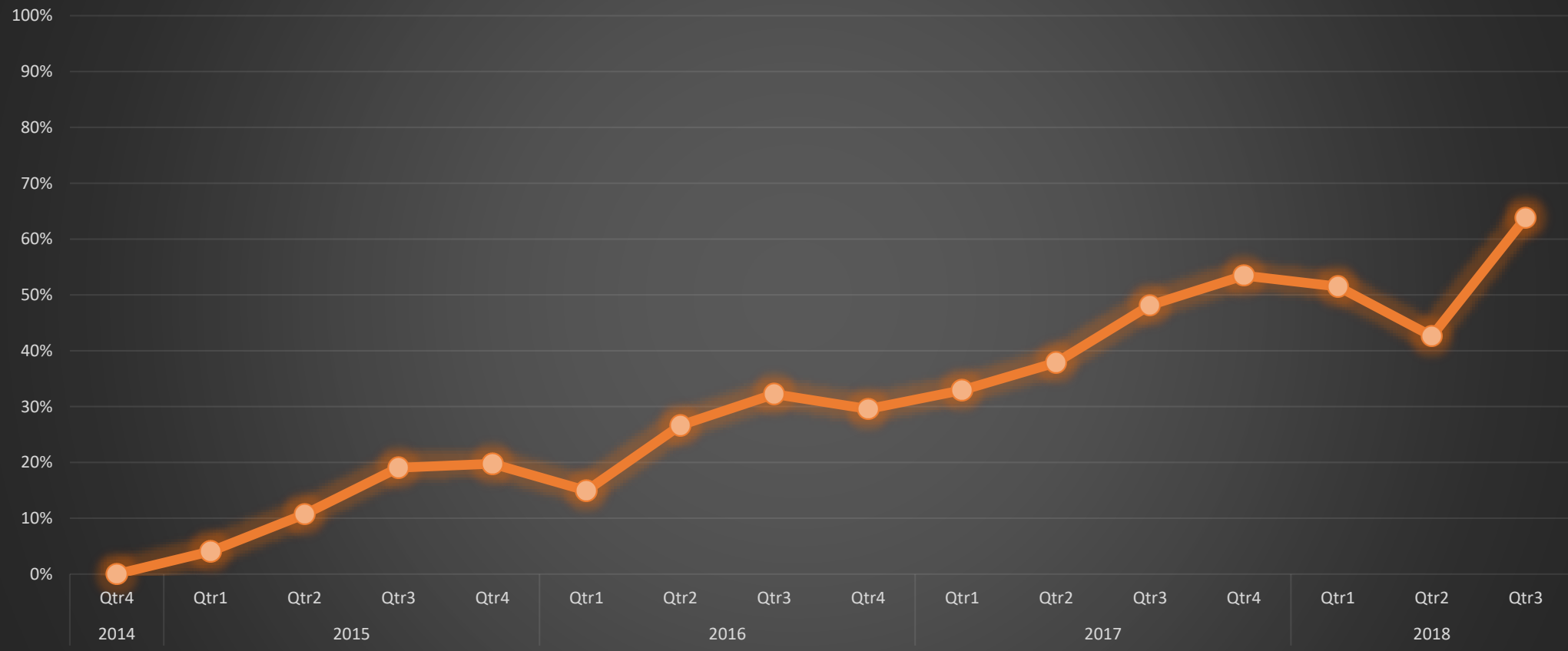


High Level Achievements



High Level Achievements

Percentage of Compliance Report Portal Submissions



Lessons Learned

- ◆ Resistance to change/culture differences.
 - Technology not the issue; getting buy-in from staff is where projects either succeed or fail.
 - Fierce ownership of existing systems; not wanting to let go of those systems.
- ◆ Good customer service is necessary to assist Industry in learning a new system - a varied multimedia approach is essential.
- ◆ IT hosting challenges are difficult to resolve at times.
- ◆ To resolve system related and procedural issues – Developed a committee of technical staff, from each program within AQD.

Transferability/Partnerships

- ◆ Developed through a collaboration with the Ohio EPA.
- ◆ AQD recently entered into a partnership with both the GRIC and the MCAQD.
- ◆ Each entity's air data system has the same foundation (source code).
- ◆ Primary goal of the newly-formed partnership is to share ideas for further streamlining business processes and resources.

Questions?

Facility Information

Facility ID: F026263	Facility Name: AQD Test Facility	District: District 1
Facility Type: Compressor Station	Company Name: Wyoming Air Quality Division	County: Laramie
Physical Address: Section 22, 12N, 68W	City: Laramie County	
Lat/Long: 41.00000/-105.00000	PLSS: S22-T12N-R68W	

▼ In Progress Tasks

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<div>Delete selected task(s)Printable viewExport to excel</div>					

New Tasks

Select from the lists below to create a new task

Facility Management

Make a change to the Facility Inventory

Make a change to the Facility Inventory - clone another facility

Make a change to the Facility Contact(s)

Emissions Reporting

Create an Emissions Inventory

Permitting

Create an NSR Permit Application

Create a Title V Permit Application

Compliance Reporting

Create a Stack Test Report

Create a Compliance Report

Contact Information

IMPACT Project Manager

Adam Deppe

Email: adam.deppe@wyo.gov

Phone: 307-777-6088

New Features – Permit Tables

- ◆ New Permit Table Layout - Clicking the *Permits* option from the Facility Information page now loads NSR permits/waivers (authorization letters) and Title V Permits into two separate tables. Clicking the Workflow Diagram link will show the permitting workflow progress for that particular permit.

▼ NSR Permits/Waivers

Permit Number	Legacy Permit Number	Application Number(s)	Action	Reason(s)	Public Notice					Final			Rescission Date	Description	Workflow Diagram Link
					Start Date	End Date	Public Notice Document	Permit Analysis Document	Public Comments	Final Permit/Waiver Document	Final Issuance Date	Expiration Date			
<div>Printable viewExport to excel</div>															

▼ Title V Permits

Permit Number	Legacy Permit Number	Application Number(s)	Reason(s)	Public Notice						Proposed			Final					Rescission Date	Description	Workflow Diagram Link
				Start Date	End Date	Public Notice Document	Draft Statement of Basis Document	Draft Title V Permit Document	Public Comments	Date Permit Sent to EPA	Proposed Statement of Basis Document	Proposed Title V Permit Document	Final Statement of Basis Document	Final Title V Permit Document	Final Issuance Date	Permit Basis Date	Expiration Date			
<div>Printable viewExport to excel</div>																				



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New Features – NSR Permit Table

▼ NSR Permits/Waivers


Permit Number	Legacy Permit Number	Application Number(s)	Action	Reason(s)	Public Notice					Final Permit Document
					Start Date	End Date ▼	Public Notice Document	Permit Analysis Document	Public Comments	
P0022765		A0004151	Permit	Modification	3/29/2017	4/28/2017	Public notice PDF	NSR Analysis Document (PDF)	Company Comments - pdf NSR Response to Company Comments	Final Permit Document (pdf)



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New Features – TV Permit Table

▼ Title V Permits

Permit Number	Legacy Permit Number	Application Number(s)	Reason(s) 	Public Notice						Date Permit Sent to EPA
				Start Date	End Date	Public Notice Document	Draft Statement of Basis Document	Draft Title V Permit Document	Public Comments	
P0023201		A0005034	Initial	9/4/2018	9/4/2018	TV Public Notice	Draft Statement of Basis	Draft TV Permit		9/5/2018



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New Features – Permit Workflow

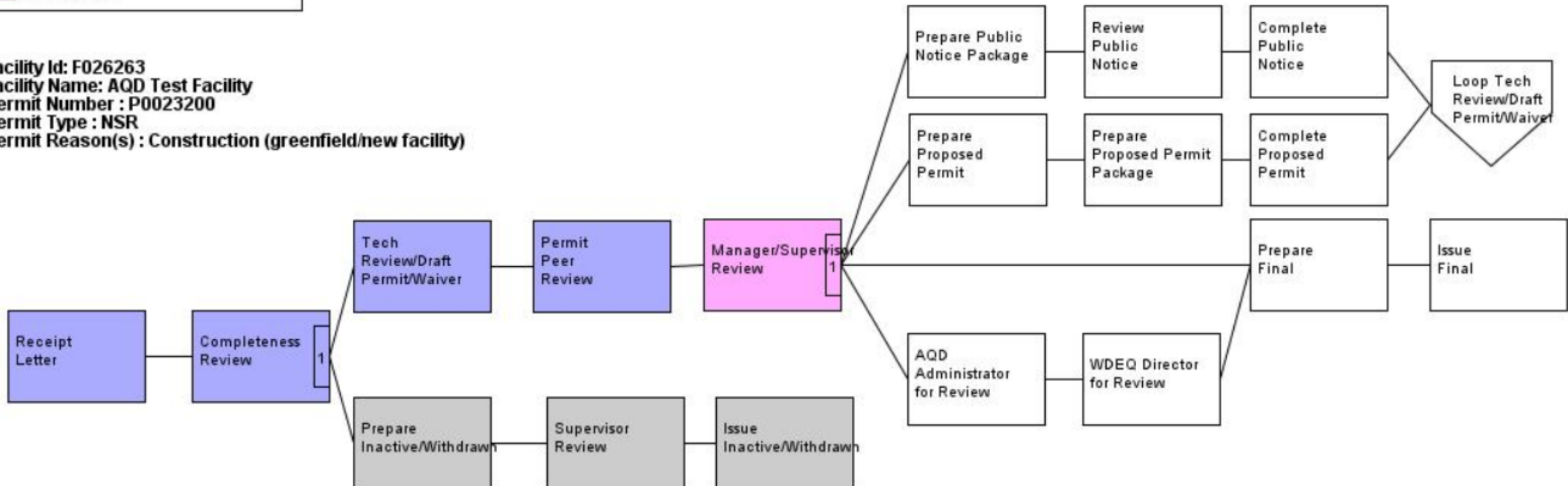
Workflow Diagram

Permitting 46201

Task Legend



Facility Id: F026263
Facility Name: AQD Test Facility
Permit Number : P0023200
Permit Type : NSR
Permit Reason(s) : Construction (greenfield/new facility)



New Features – RP Calculation

- ◆ Facility Inventory Calculation for Release Points (RP) - Users now only enter values for a vertical or horizontal release point for Stack Diameter (ft) and Exit Gas Flow Velocity (ft/s). IMPACT calculates the Exit Gas Flow Rate (acfm).

▼ Release Point Type Specific Information

* Base Elevation (ft):	<input type="text" value="3333.00"/>	
	<small>Feet above sea level</small>	
* Stack Height (ft):	<input type="text" value="215.00"/>	* Stack Diameter (ft): <input type="text" value="1.65"/>
	<small>Feet above base elevation</small>	
* Exit Gas Velocity (ft/s):	<input type="text" value="51.73"/>	* Exit Gas Temp (F): <input type="text" value="385.00"/>
Exit Gas Flow Rate (acfm):	6636.69	
	<small>Flow rate is calculated by IMPACT: $3.1415927 \times \text{Velocity} \times 60 \times (\text{Diameter}/2)^2$</small>	

New Features – NSR Permit & EU

- ◆ NSR Application and Emission Unit Updates
 - Affects Tank, Pneumatic Equipment, and Fugitive Emissions Units

▼ Emission Unit Type Specific Information

Fugitive Emission Type - Fugitive Leaks at Oil and Gas Sites: ☒

Total Count of Component:

Component	Gas	Heavy Oil (≤20° API)	Light Oil(>20° API)	Water/Condensate
Connectors	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Flanges	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Open Ended Lines	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Pump Seals	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Valves	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Other	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Just Released – Open Air

Open Air – IMPACT Public-Facing Website

- Launched November 5, 2018
- openair.wyo.gov

The WDEQ Air Quality IMPACT Public Website Disclaimer:

This tool allows you to search the Wyoming Air Quality Division's IMPACT database. Improper or incorrect use of this tool may cause unexpected or inaccurate results. Although every attempt is made to ensure that the information contained in the database is accurate, the Wyoming Department of Environmental Quality (DEQ) is not responsible for any loss, consequence, or damage resulting directly or indirectly from reliance on the accuracy, reliability, or timeliness of the information that is contained in this database. Users assume the entire risk of using the data contained in IMPACT. DEQ is providing this data "as is;" and no warranty expressed or implied is made, including (without limitation) any implied warranties of merchantability or fitness for a particular purpose. In no event will DEQ be liable to any user or third party for any direct, indirect, incidental, consequential, special, or exemplary damages or lost profit resulting from any use or misuse of this data. Additional information concerning the accuracy and appropriate uses of this data may be obtained from the point of contact for the IMPACT database. The point of contact can be found at:

<http://deq.wyoming.gov/aqd/impact-system/>

Just Released - OpenAir

Facility Detail Page in OpenAir

Facility Search | **Current Facility Inventory** | Applications | Emissions Inventories | Permits | Stack Tests | Compliance Reports | Ambient Monitoring

- Applications
- CEM/COM/CMS Limits
- CEM/COM/CMS Monitors
- Compliance Reports
- Control Equipment
- Emission Units
- Emissions Inventories
- Facility Inventory History
- Owners
- Permits
- Release Points
- Stack Tests

[IMPACT Home](#) >

Facility Detail

Facility ID: F026263
Facility Type: Pipeline Station

Facility Name: AQD Test Facility
Company Name: Wyoming Air Quality Division

District: District 1
County: Laramie

Version Start Date: 10/22/2018
Version End Date: Current

Expand Facility Tree

- F026263
 - APT001
 - APT002
 - BOL001
 - BOL002
 - BOL003
 - CKD001
 - CSH001
 - CTW001
 - DHY001
 - ENG002
 - ENG003
 - ENG004
 - ENG005

Facility Information

Facility ID: F026263
Facility Name: AQD Test Facility
Facility Description:

Facility Class: Title V
Facility Type: Pipeline Station

Associated Monitor: MGRP000063
Group ID:
Operating Status: Operating
AFS:

Location

ID	Physical Address	City	County	Lat/Long	PLSS	Effective Date
109103	Section 22, 12N, 68W	Laramie County	Laramie	41.00000/-105.00000	S22-T12N-R68W	9/15/2014

Printable view | Export to excel

Just Released - OpenAir

Stack Test Page in OpenAir



Version 10.1 | Build ID: 23.0.0

[Facility Search](#) | [Current Facility Inventory](#) | [Applications](#) | [Emissions Inventories](#) | [Permits](#) | [Stack Tests](#) | [Compliance Reports](#) | [Ambient Monitoring](#)

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- [Emission Units](#)
- [Emissions Inventories](#)
- [Facility Inventory History](#)
- [Owners](#)
- [Permits](#)
- [Release Points](#)
- [Stack Tests](#)

[IMPACT Home](#) > [Current Facility Inventory](#) >

Stack Tests

Facility ID: F026263 **Facility Name:** AQD Test Facility **Operating Status:** Operating **Version End Date:** Current
Facility Type: Pipeline Station **Company Name:** Wyoming Air Quality Division **Version Start Date:** 9/6/2018

Stack Test ID	AFS ID	EUs	Stack Test Method	Failed Pollutants	Test Date(s)	Date Scheduled	Date Received	Date Reviewed	Conformed to Test Method
STCK019658		BOL001	Portable Analyzer (NOx & CO)		2/2/2015		2/5/2015	3/16/2015	Yes

[Printable view](#)

[Export to excel](#)