Brunner Island, LLC
REGULATORY DELIVERABLE
SUBMITTAL COVER SHEET

Date:	February 25, 2026	**Transmittal No.:**	BI-42-2026.02.25.v.1
DOCUMENT DESCRIPTION:		Brunner Island notification of discharge channel 6-degree temperature rate-of-change (ROC) as described in Paragraph 42 of the Consent Decree entered on November 8, 2019, and in the NPDES Permit No. PA0008281, Part C, Section VI. See attached letter for incident report.	
CONSENT DECREE REFERENCE:		Paragraph No.:	42
BRIEF DESCRIPTION OF OUTLINED REQUIREMENT:		With regard to the thermal discharge from Outfall 001, any time Brunner notifies the Department of a temperature change during a unit shut down in which the heat source is removed from the discharge channel and which results in a 6-degree Fahrenheit change of temperature during a one-hour period, Brunner shall notify Citizens by email at approximately the same time it notifies the Department as required by Part C, Section VI of Brunner's NPDES Permit. The Department will post this information on the Department's internet site within a reasonable amount of time after receipt by the Department. Within 3 hours and again within 24 hours of recording of a 6-degree Fahrenheit or greater one-hour temperature change, Brunner shall commence a visual inspection from the water's edge, starting at the water intake, upstream of the discharge channel, and ending at the 5000-foot compliance point to assess the impact of the temperature change on fish. The first inspection need not be performed by trained personnel and shall be performed to get an initial location and approximate number of obviously distressed and/or dead fish. Within 10 business days thereafter, Brunner shall submit a report to the Department setting forth: the reasons for the temperature excursion; steps that will be taken to prevent a reoccurrence; and, the results of the visual inspections including the location of, and approximate number of, visibly distressed and/or dead fish.	
RECIPIENT(S):			
NAME:		ORGANIZATION:	
Maria Bebenek		PA DEP Clean Water Program	
Lisa Widawsky Hallowell (email: lhallowell@environmentalintegrity.org)		EIP	
Dante Mack (email: dmack@environmentalintegrity.org)		EIP	
Vincent Bregman (email: vbregman@environmentalintegrity.org)		EIP	
Summer Stawiarski		PA DEP Clean Water Program	
Thomas Weissinger		Talen Energy	
Brunner Island, LLC Contact Name:		Kathleen Locke	
Brunner Island, LLC Contact Phone:		(717) 268-1531	
Mailing Address: Brunner Island, LLC P. O. Box 221 York Haven, PA 17370		Street Address: Brunner Island, LLC 1400 Wago Road Mt. Wolf, PA 17347	

Kathleen S. Locke • Environmental Professional
Brunner Island SES • Talen Generation, LLC
PO Box 221 • York Haven, PA 17370-0221

VIA ELECTRONIC MAIL

February 27, 2026

Ms. Summer Stawiarski
Pennsylvania Department of Environmental Protection
Clean Water Program
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17110-8200

BRUNNER ISLAND, LLC – DISCHARGE CHANNEL 6 DEGREE RATE OF CHANGE NOTIFICATION [NPDES PERMIT NO. PA0008281, PART C, SECTION VI]

Dear Ms. Stawiarski:

This letter serves as follow-up written communication, as required by Part A.III.C.4.b.(ii) of the above referenced permit (and paragraph 42 of the Consent Decree), regarding an incident reported to the PADEP Southcentral Region Emergency Number on Wednesday, February 25, 2026, at approximately 7:15 AM EST for Brunner Island, LLC, located at 1400 Wago Road, Mt. Wolf, PA 17347.

Description of Incident:

At approximately 5:35 AM EST on Wednesday, February 25, 2026, the Brunner Island discharge channel exhibited a greater than 6°F per hour rate of change (ROC) during a Unit 3 boiler trip. A discharge channel maximum ROC of ≥-10.38°F per hour was observed. Operators were dispatched to perform the first of two visual inspections. They observed no dead fish. The initial notification of the event was made by phone, to the PADEP Southcentral Region 24-Hour Emergency Response Center at 7:15 AM EST February 25, 2026.

At the time of the ROC, the ambient air temperature was approximately 31°F with winds out of the SE at 20 miles per hour according to Weather Underground for Mt. Wolf, PA. Unit 3 had been approved for a maintenance outage and was in the process of an intentional shutdown. As the unit reduced load, there was an interruption of coal supply from the feeder at about 220 MW and the unit tripped.

Brunner Island contacted Normandeau Associates (NAI) by email and text, Wednesday, February 25, 2026, at approximately 6:40 AM EST, requesting a fish check. At approximately 9:02 AM EST on Wednesday, NAI inspected the plant water intake area, the heated discharge channel, the confluence of the discharge channel with the river and the downstream shoreline. No dead or distressed fish were observed. The NAI Inspection concluded, and these initial findings were verbally reported by Steve Adams to Kate Locke via phone call at 12:34 PM EST on Wednesday and were immediately relayed by Kate via text to Shawn Lesitsky, (PADEP).

Cause of Incident:

On February 25, 2026, at about 05:35 AM EST, Unit 3 tripped during a controlled shutdown when the fuel supply to the boiler, (coal), was briefly interrupted. Loss of primary fuel at low load does not present enough time for control room operators to take recovery actions or prevent the unit from tripping offline entirely. Loss of fuel indication results in a Main Boiler Trip. Critical control points and devices, such as fuel supply, are extremely sensitive and are engineered to immediately re-position valves, trip the unit, or de-energize equipment, primarily for safety, to protect personnel, and to conservatively preserve the equipment from damage. A high energy system such as a powerplant has numerous controls, and many are tied together to work in cascading sequences. At the time of the Unit 3 trip, Unit 2 was operating and continued to generate.

Steps Taken or Planned to Reduce, Eliminate and Prevent the Recurrence of the Incident:

Power plants that utilize coal have comprehensive large scale continuous solid fuel delivery systems designed to crush and pulverize raw coal into a homogeneous flowable fuel. This is paramount to consistent and reliable combustion inside the boiler. Raw coal arrives at the station by open top rail car, exposed to the weather, often arriving frozen, then thawed, crushed, transferred from the yard into the boiler house where it is milled into a powder and prepared for firing. Even with equipment in place to remove or screen rocks, brick, and other bulky non-combustible contamination, the occasional obstructor does get through and can temporarily block the normal supply of coal to the furnace. The entire coal delivery system will be inspected while the unit is off to verify integrity and proper operation.

Results of Visual Inspections:

- During the initial visual inspection of the intake area, the discharge channel, and the downstream shoreline by Operations personnel immediately following the event at 05:35 AM EST on Wednesday, February 25, 2026, no dead or distressed fish were observed.
- NAI's visual inspection, (see attachment), beginning at 9:02 AM EST, February 25, 2026, revealed zero dead or distressed fish.

Should you have any questions regarding this report, please call me at (717) 268-1531 or email kathleen.locke@talenenergy.com.

Sincerely,

Kathleen S Locke
Environmental Professional

Attachments: Initial Email Notification to Citizens (EIP)
NAI Visual Inspection Report Summary

Cc:	Maria Bebenek	PA DEP - SCRO
	Thomas S. Clisham	TALEN (BRUPT)
	Thomas Black	TALEN (BRUPT)
	Kate Locke	TALEN (BRUPT)
	Megan Toomey	TALEN (CORP)
	Thomas Weissinger	TALEN (CORP)
	Ed Werkheiser	TALEN (CORP)
	Dave Paulin	TALEN (CORP)
	Bonnie Barnett	Faegre Drinker Biddle & Reath, LLP
	Lisa Hallowell	EIP (lhallowell@environmentalintegrity.org)
	Dante Mack	EIP (dmack@environmentalintegrity.org)
	Vincent Bregman	EIP (vbregman@environmentalintegrity.org)

ATTACHMENTS:

INITIAL EMAIL NOTIFICATION TO CITIZENS (EIP) (02/25/2026)

NORMANDEAU ASSOCIATES (NAI) REPORT OF SITE INSPECTION conducted 02/25/2026

Locke, Kathleen

From: Black, Thomas
Sent: Wednesday, February 25, 2026 8:06 AM
To: aruss@environmentalintegrity.org; Bebenek, Maria; Black, Thomas; Clisham, Thomas; Dante Mack; Harner, Jason; hdock@pa.gov; Lisa Widawsky Hallowell; Locke, Kathleen; Paulin, David J; Shawn Lesitsky (slesitsky@pa.gov); Summer Stawiarski (sustawiars@pa.gov); Toomey, Megan A; Weissinger, Thomas; Werkheiser, Edward
Subject: Brunner Island Discharge Channel Exceedance 2/25/2026

Good morning,

At approximately 05:35 hours, on February 25th, 2026, the Brunner Island discharge channel exhibited a greater than 6-degree F per hour rate of change during a Unit 3 shutdown. A discharge channel rate of change of -10.38 degrees F per hour was observed. The shift supervisor on duty called PADEP Southcentral Regional 24-hour Emergency Response at 07:15 hours to report the greater than 6-degree F rate of change per hour. Site personnel conducted an initial inspection of the channel at the time of the event and did not observe the presence of dead or stressed fish.

Normandeau Associates was contacted at 06:40 and is scheduled to arrive this morning to conduct an inspection of the discharge channel and shoreline south of the channel.

A follow up 10-day letter will be sent to the DEP and to the Citizens (EIP) as required.

Tom Black
Plant Manager – Brunner Island | Talen Energy
thomas.black@talenenergy.com
Office: 717-266-7510 | Mobile: 443-340-0342

NORMANDEAU ASSOCIATES
ENVIRONMENTAL CONSULTANTS

February 25, 2026

Talen Energy Supply, LLC
Brunner Island LLC
1400 Wago Road
Mount Wolf, PA 17347

Re: Inspection report for Brunner Island Unit 3 Controlled Shutdown Trip- Fish Observations: February 25, 2026

Dear Ms. Kathleen Locke,

On the morning of Wednesday, February 25, 2026, Talen Energy contacted Normandeau Associates Inc. (NAI) via email and telephone at approximately 06:41 am for a request for a fish check/discharge canal inspection due to a Unit 3 controlled shutdown trip, which resulted in a 6-degree (Fahrenheit) temperature exceedance in the Brunner Island discharge canal. NAI then immediately mobilized personnel and equipment and departed for the inspection.

NAI arrived at Brunner Island Electric Steam Station (BISES) Gate A at approximately 9:02 am. NAI signed in with the security guard and received site guest badges and the required gate key for the confluence of the discharge canal and Susquehanna River. NAI then contacted Kate Locke to inform her NAI was on site and prepared for the fish check inspection.

NAI first arrived at the upstream Unit 1 & 2 intakes around 9:13 am. Intake area was free of ice and river was murky with only about 1-2' of clarity. Ice chunks were floating downriver in middle of river and along the eastern side of the river. No dead or stressed fish were observed. Similar observations were made for the downstream Unit 3 intake.

At around 9:32 am, NAI arrived at the intake debris kickback pond. No dead or stressed fish were observed there. Water clarity was approximately one foot visibility. A water temperature reading was taken - 3.6°C (38.5°F).

NAI then went to inspect the upper sections of the Brunner Island discharge canal. At 9:42 am, NAI arrived downstream of the Unit 1 and 2 outfall area, on the east side of the discharge channel. No dead or stressed fish were observed in the area, out in the channel or in nearby east shoreline areas. Water clarity was approximately one foot, but clear to bottom in shallow areas of a foot or less. A water temperature was taken on the east shoreline – 25.6°C (78.1°F).

NAI then arrived over at the Unit 3 discharge outfall to observe the upper discharge channel at approximately 9:49 am. An active water discharge was occurring; no steam was observed. No dead or stressed fish were observed. A water temperature reading was taken- 5.8°C (42.4°F).

NAI then checked the area along the east side of the canal between the Units 1 and 2 discharge and Cooling tower intake at approximately 10:00 am. No dead or stressed fish were observed. A water temperature reading was taken- 16.2°C (61.2°F).

NAI walked along the east side of the canal down to the end of the canal from approximately 10:05 to 10:30 am. No stressed or dead fish were observed. Water clarity was approximately one foot, but clear to bottom in shallow areas of a foot or less.

NAI then walked the west side of the upper canal down to near the cooling tower intake area at approximately 10:45 am. No stressed or dead fish were observed. Water clarity was approximately one foot, but clear to bottom in shallow areas of a foot or less.

NAI then moved onward with the remainder (west side) of the discharge canal around 10:57 am. Arriving at the cooling tower (CT) intake screens on the west side of the discharge channel. No stressed or dead fish were observed. Water clarity was murky with approximately one foot visibility.

At 11:19 am, NAI arrived downstream of the discharge canal, at the old public parking lot/confluence of the Susquehanna River. A water temperature reading was taken- 18.3°C (64.9°F). No stressed or dead fish were observed. Water clarity was murky with approximately one foot visibility.

NAI then arrived at the power transmission tower (approximately 5000' downstream of the discharge canal) at 11:30 am and worked upriver to encompass the remainder of the transect finishing around 12:30 pm. No stressed or dead fish were observed in shoreline areas down from the immediate confluence areas and no fish were visibly evident further out in the river. Water visibility was murky akin to other areas of inspection. Most of the western shoreline areas were unimpeded by any surface ice.

At this point, NAI concluded the inspection for the day. NAI then returned the gate key and guest badge to the guard and were off-site by about 12:38 pm. NAI notified Talen Energy personnel about the results of the inspection.

Concluding notes:

-A YSI Pro 20 was used to record water temperature.

-Air temperatures for the duration of the inspection were between 35°F to 45°F with west southwest winds of 13 mph, with gusts to 25 mph. Skies were partly cloudy to overcast.

-This fish check/channel inspection was conducted by NAI staff member Steven Adams.

If you have any further questions, or need any clarification about this report, please do not hesitate to contact me.

Thank you,

Travis Tacelosky

Travis E. Tacelosky

Fisheries Scientist
Normandeau Associates Inc.

Office Phone:(717) 207-8835
ttacelosky@normandeau.com