TOWN OF KILLINGLY
WATER POLLUTION CONTROL AUTHORITY

Regular In Person Meeting Agenda

Wednesday, October 20, 2021

6:00 PM

Killingly Town Hall
Town Meeting Room
172 Main Street, Danielson CT

1. Roll Call
2. Citizen Participation (on items not subject to public hearing)
3. Town Council Liaison Participation
4. Adoption of Regular Meeting Minutes September 15, 2021
5. Finance Report
    a. Monthly Finance Report
6. Report of Project Manager
7. Frito-Lay Representation
8. Unfinished Business
    a. Facilities Project Update
    b. I&I Study
    c. Centrifuge Blend Check Valves
9. New Business
    a. ARPA application
10. Correspondence
    a. CT DEEP Memo
    b. HSB Infrared scan
11. Other
12. Executive Session – Legal Opinion
13. Adjournment

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Regular In Person Meeting
Wednesday, September 15, 2021
6:00 PM

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Town Meeting Room
172 Main Street, Danielson CT

MINUTES

1. **Roll Call** – Chair, Patrick McLaughlin called the Meeting to order at 6:03 p.m. and did the Roll Call.

   Members Present:
   Patrick McLaughlin
   Gerard CinqMars
   Andrew Danna
   Joseph Higgins absent with notice.

   Staff Present:
   David Capacchione, Director of Engineering and Facilities
   Mark Cataldo, Suez Project Manager

   Also Present:
   Therlin Montgomery, Wright-Pierce

2. Citizen Participation (on items not subject to public hearing) – None.

3. Town Council Liaison Participation – No representation.

4. Adoption of Regular Meeting Minutes August 18, 2021

Motion was made by Andrew Danna to adopt the Minutes of the Regular Meeting of August 18, 2021.
Second by Gerard CinqMars. No discussion.
Motion carried unanimously by voice vote (3-0-0).

5. Finance Report
   a. Monthly Finance Report (included in packets to Authority Members).
      David Capacchione reported that everything is tracking as expected. There was discussion regarding bonds.

6. Report of Project Manager
   Mark Cataldo reported:
   - In total compliance for the month.
   - No violations.
   - Still at COVID Level 2.
   - Processed approximately 80 million gallons of water – 2.6 MGD for the month.
   - Influent 5 milligrams BOD and 3 milligrams TSS.
   - The Plant seems to be running very well.
   - 148 Work Orders.

- 10 alarms.
- Completed 78 Mark-outs.
- No odor complaints.
- Nitrogen removal averaging 73 pounds for the year.
- Phosphorus running .51 for the month.

There was discussion regarding peak flows (6.1) during the heavy rains (a day-and-a-half). There was discussion regarding how well the Plant is running with the new SCADA System and centrifuges. A new person was hired in August.

7. Frito-Lay Representation

Heather Belanger was not present, but she had told Mr. Capacchione that there were no operational issues at the Facility.

8. Unfinished Business
   a. Facilities Project Update

David Capacchione reported:

- Winding down.
- Therlin Montgomery issued the substantial completion letter (dated August 1st). They are working on punch-list items.
- Mr. Capacchione explained that a couple of check valves need to be added to the centrifuge which was not part of the original design. He would like to do this outside of the Project due to timeframe.

Mr. Montgomery explained about the need for the check valves. The sludge pumps feed the centrifuges and they are getting some backflow of sludge through the pump when they turn off the centrifuge and then the sludge tank starts to fill up, so check valves need to be installed on the discharge side of each of those pumps in order to prevent that from happening. He explained that it has to do with normal wear and tear of the pump itself.

Mr. McLaughlin asked about whether they would have to wait for the warranty period to be over before making any modifications. Mr. Capacchione stated that he does not feel that it would be impactful to the new equipment. Discussion continued. It is outside of the original contract and it was unanticipated. There are not currently any check valves, but now they are needed because there are now two centrifuges.

Mr. Capacchione referred to a quote from New England Pump & Valve who could supply the pumps off the Connecticut State bid and could install them for approximately $5,000 each. Mr. Capacchione suggested that the Authority Members consider authorizing $10,000 to come from Capital to have them installed. There was discussion.

Mr. McLaughlin asked about the Change Order for R.H. White. Mr. Capacchione stated that the total so far is $700,000 plus (about 4 percent of the $18 million). We are nearing the end of our allocated funds.

Mr. McLaughlin stated that this can be further discussed under Agenda Item 9 – New Business.

There was discussion regarding who is still working at the Facility on a day-to-day basis. Mr. Montgomery explained that he tries to get there once a week to check on punch-list items for which there is an associated cost for each item (comes out of the retainage for the Project which is just under $300,000 at this time). Mr. Capacchione explained that there are minor

things that need to be completed, but it is difficult getting the subcontractors to come back due to scheduling conflicts with other projects that they are working on.

There was discussion regarding how the new equipment has improved how the Facility runs and how the odors are different. Mr. CinqMars commended the Suez Staff for their work and Mr. Cataldo, in turn, commended Wright-Pierce for their level of cooperation. Discussion continued.

b. I&I Study W-P Presentation

Therlin Montgomery, Wright-Pierce, gave a PowerPoint presentation summarizing the findings of the Draft Report and recommendations. He noted that Joe Hausmann, who was unable to attend the meeting, did 95 percent of the work. Final Report has not yet been submitted as they want to incorporate comments from the Town and Suez first. He said that there wouldn't be any major changes to the Draft.

- The Report was based on data collected from 2008 through 2020.
- There was a sharp increase (30%) in flows to the Facility in 2017.
- There is concern regarding close proximity to, and crossing, rivers and brooks and whether some of that water is being brought into the sewer system. There is also concern regarding the age of the system as well as the shape of some of the areas of the system.
- Mr. Montgomry discussed how they focused on manholes (and the areas around them), main interceptors running along rivers and brooks, and their observations. Mr. Capacchione noted that during inspections, it was found that the vented manhole covers had less corrosion issues than the sealed covers (inside the manholes). He posed the question, is it better to deal with the extra flow or to deal with the repair of the corroded concrete? There was discussion regarding possibly lining the manholes.
- Mr. Montgomry discussed the flow meter events: one in the fall of 2020 (to establish a baseline during dryer weather, but there was quite a bit of rain); and one in the spring of 2021 (which also was not typical weather). He explained the data analysis for dry weather (infiltration) and wet weather (in-flow) which is used to rank/prioritize where to focus their efforts.

  Manhole #20 (main interceptor – west of the Five Mile River) was shown to have an overall ranking of 1. Further study is recommended.

  Manhole #4 (meter basin) was shown to have an overall ranking of 2. Further study is recommended.

  Manhole #61 - Further study is recommended.

  Mr. Capacchione noted that this means that there will be further study, investigation and repair in the downtown area.

- Mr. Montgomery discussed other types of further studies that they could do for metered areas: nighttime flow isolations, further manhole inspections, smoke testing, dye testing based on the infiltration or in-flow that they see.
- Mr. Montgomery discussed what was observed on the site walks: most manhole covers are vented; a lot of damage/defects around the covers; cracked frames; concrete that needs to be repaired. Recommendation for corrective actions based on field observations: replace frames and covers; replace or repair concrete; cleaning and

lining of the manholes and grouting; replace the vented manhole covers in areas that we know are susceptible to ponding or sheeting.

- Mr. Montgomery discussed the Table of unit costs for doing further SSES (Sanitary Sewer Evaluation Survey) work and corrective measures.
- Mr. Montgomery discussed the recommended schedule for further SSES (over the next ten years).
  Mr. McLaughlin asked that a total dollar amount for each year be added to the bottom. Mr. Montgomery agreed to do that and he will share the presentation information with Authority Members.
- Mr. Montgomery discussed funding options.
  There was discussion regarding Clean Water, USRDA and ARPA. Mr. Capacchione will be submitting an application for ARPA to the Town Manager.
- Mr. Montgomery discussed final recommendations:
  - Find out where the missing manholes are.
    Mr. Capacchione stated that he believes they have located 99 percent of them (buried, washed out, or in the River).

Mr. CinqMars asked how these improvements over the last four or five years have enhanced for future growth. Mr. Montgomery stated that the Study and repairs free-up the capacity of the collection system. He said that he does not know if we've increased the capacity of the Sewer Plant, but we have increased the reliability of the Sewer Plant.

Mr. Montgomery continued with final recommendations:

- Some areas of discrepancies were found while working with the Town GIS, so they recommend going through that and cleaning it up.
- Continue to maintain access of manholes of brush and trees.
- They saw a similar increase in flows from Brooklyn, so keep an eye on that.
- Take the recent information compiled (manhole logs and photos) by Alec Ethier, recent I&I work and some of the recent CCTV work and incorporate that information into the Draft Report.
- When repairs are done, do follow-up flow monitoring and CCTV on a regular basis to keep things in check.

There was discussion regarding making information available on the website once the study is done to show the work that has been done over the past few years.

c. 148 Maple Street
David Capacchione stated that he was unable to find anything related to any assessment for that property going back through the records. He asked if Mr. Nason is on his own. Mr. McLaughlin stated, "yes."

9. New Business
It was decided that Mr. Capacchione should try to get a third quote. He has quotes from R.H. White and New England Pump & Valve.

10. Correspondence
    a. 18 St. James ROW
    Mr. Capacchione explained that he had tried to call the property owner, but she did not return his call. He has not visited the property. Therefore, he is not suggesting that sewer use fees be waived.

11. Other – None.

12. Adjournment

Motion was made by Gerard CinqMars to adjourn at 7:17 p.m. Second by Andrew Danna. No discussion. Motion carried unanimously by voice vote (3-0-0).

Respectfully submitted,

J.S. Perreault
Recording Secretary

Water Pollution Control Authority

Estimated Revenue & Expenditure Detail

Monthly Report Through September 30, 2021

Revenues	Fiscal Year 2020-21 Actuals	2021-2022 Budget	Fiscal Year 2021-2022 September	Variance
Sewer Use Charges	4,659,325	6,168,599	2,069,521	(4,099,078)
Assessment Interest	9,643	-	5,585	5,585
Special Work	11,493	5,000	1,643	(3,357)
Use Charge Interest	57,270	40,000	19,497	(20,503)
Interest Income	30,242	34,000	1,685	(32,315)
Liens	9,114	7,000	2,406	(4,594)
Sewer Connection Fees	57,400	-	700	700
Assessment Liens	96	-	168	168
Sewer Assessment	21,439	-	40,763	40,763
Miscellaneous	4,119	1,000	8,130	7,130
Fund Balance Appropriation	-	381,729	-	(381,729)
Total Revenues	**4,860,142**	**6,637,328**	**2,150,097**	**(4,487,231)**
Expenditures				
Printing	-	150	-	150
Advertising	374	700	320	380
Postage & Delivery	109	400	30	370
Professional Development	-	200	-	200
Contractual Svc. - Support	66,941	145,000	300	144,700
Contractual Svc. - Office	184,816	188,668	188,668	-
Contractual Svc. - M&E	928	15,000	-	15,000
Contractual Svc. - Sewer Line Maintenance	7,333	40,000	3,400	36,600
Professional Services	2,609,737	2,956,999	634,331	2,322,668
Data Processing Year End	49,936	50,000	50,000	-
Debt Service - Transfer	241,011	240,275	240,275	-
Debt Service - Sewer Replacement	428,869	426,252	426,252	-
Debt Service - CWF Rogers	178,032	175,369	175,369	-
Debt Service - Facility upgrade	104,577	1,820,765	1,820,765	-
Debt Issuance Costs	10,500	15,000	-	15,000
Property Insurance	80,000	82,400	41,200	41,200
Self-Insured Contribution	10,000	10,000	10,000	-
Contingency	8,360	20,000	340	19,660
Office Supplies	129	150	-	150
Capital Projects	404,000	350,000	-	350,000
Due to CNR	100,000	100,000	-	100,000
General Fund - Sewer Assessments	31,178	-	-	-
Total Expenditures	**4,516,830**	**6,637,328**	**3,591,250**	**3,046,078**
Total Revenue Over/(Under) Expenditures	343,312	-	(1,441,153)	

	Unaudited	Unaudited
Beginning Undesignated Fund Balance	**2,839,348**	**3,182,660**
Supplemental Appropriations	**-**	**-**
Increase / (Decrease) Fund Balance	**343,312**	**(1,441,153)**
Ending Fund Balance*	**3,182,660**	**1,741,507**

**The above information for FY2020-21 is preliminary and subject to change pending final audit results.*

David Capacchione

From: Therlin Montgomery <therlin.montgomery@wright-pierce.com>
Sent: Friday, October 1, 2021 1:36 PM
To: David Capacchione
Subject: Centrifuge/Blend Pump Check valve quotes (3 quotes)
Attachments: PCO-087 RFP-22 Check valve.pdf; Killingly Blend Sludge Pump CV Install - Proposal.pdf; Re: Killingly check valve

Hi Dave, for your information and as discussed.

Quotes for installation of two (2) new check valves on the discharge of the blended sludge pumps feeding the two (2) Centrifuges. The check valves are required to prevent backflow of plant water when the Centrifuge is in flush mode (blend sludge pump is OFF during this mode).

- RHWhite: $16,813
- Delray: $17,066
- New England Pump & Valve: $8,950

Therlin Montgomery
Wright-Pierce | Project Manager
direct 860.852.1903 | **cell** 860.604.0034

41 Central Street
Auburn, MA 01501
Ph: 508-832-3295
Fax: 508-832-6751

Proposed Change Order PCO-087

Owner Address:

Killingly CT Town of
172 Main Street
PO Box 6000
Danielson, CT 06239

Project Name:	Killingly CT -WPCF Comprehensive Upgrade
Contract Number:	
Change Order Title:	RFP-022 Blending Tank Check Valves
Change Order Number:	PCO-087
RHW Job #:	12319
Date:	06/10/21

Description of Proposal

Attached please find our proposal to provide and install a new check valve at the discharge of each of the Blended Sludge Pumps (2 pumps total) in the Sludge Building Basement. PCO includes a 5% contingency to cover for material price increase.
Schedule Extension: The estimate is 10 weeks as a lead time for the valves. RHW is requesting an extension of 11 weeks for processing, ordering, receiving, and to conduct the work.
RH White reserves the right to pursue additional time and/or general conditions costs at a later date as a result of this change if it affects the critical path or results in an otherwise cumulative impact to the project. Any costs for scope not included in this PCO however determined to be required is outside the scope of this PCO and therefore reimbursable. RHW will immediately notify the Engineer of Record if such a situation occurs. This proposal is submitted based on the understanding that this is exempt from WBE/MBE participation requirements and acceptance of this proposal waves the participation requirements associated with this additional work.

Description	Quantity	Rate	Value
RFP-022 Check Valve Pipe - CI/DI Flanged 4in-8in	1	16,813.0200	16,813.02
Totals:			16,813.02

The approval of this document authorizes R H White Construction Co Inc to proceed with the scope of work identified and will be incorporated into a change order to the contract.

Approval:

R H White Construction Co Inc:	Owner:	Engineer/Owner's Representative:
Authorized Signature: Date	Authorized Signature: Date	Authorized Signature: Date

delray contracting, inc.

September 21, 2021

Attn: Therlin Montgomery

Reference: *Proposal*
Project: *Killingly – Sludge Pump Check Valve Installation*

Dear Therlin,

We appreciate the opportunity to provide a pricing proposal to modify piping to furnish and install 2 Pratt check valves as shown on your sketch.

Proposal Includes:

- 2 Pratt Check Valves
- Modification of existing ductile iron piping
- Removal of 6" piping, cutting and installation of mega flanges and check valves
- Owner to operate valves to isolate work area, scheduled 1 valve at a time.

Pricing Complete as listed above: $17,066 .00 Seventeen Thousand Sixty Six. Pricing valid for 30 days.

Project to be completed year 2021 – early 2022 pricing subject to change if project is extended.

Excludes:
Permits and fees, bonds and additional insurance requirements, sales tax, flow control or bypass pumping and dewatering, hazardous materials abatement, third party testing, painting, sludge removal

On Behalf of,

DELRAY CONTRACTING INC.
Nate Carlson
Nathan Carlson
Estimator

cc: Project File (1)

David Capacchione

From:	Jeff Armstrong <jarmstrong@nepv.com>
Sent:	Tuesday, September 14, 2021 5:15 PM
To:	Therlin Montgomery
Subject:	Re: Killingly check valve
Attachments:	Swing Check Valves.pdf; 92 lever and weight 4 and 6.pdf

Hi Therlin -

The proposed valves are Flomatic 92LW - same length of 14". Data sheet attached and very high quality. Price each is $2475 plus shipping from NY.

For budgeting purposes it would be using state contract rates:

Valve: $2475 + 80 shipping

Fittings and SS HW: $150

Labor: 2 men x 8 @ $95/hr

Truck charge $250

$4475 per valve

If you want to move forward I can send this as a formal proposal.

Thanks

Jeff

Jeff Armstrong PE
President
(o) 860.739.2200 (c) 203.448.8642
www.nepv.com

On Wed, Sep 8, 2021 at 11:35 AM Therlin Montgomery <therlin.montgomery@wright-pierce.com> wrote:

hi Jeff,

looking for your cost to provide qty 2 check valves and install as indicate in attached sketch The check valves we are trying to match with the existing new ones (elsewhere at the facility) are 6" flange Pratt# 8501 (AIS is not

required). Cut sheet attached. Not opposed to comparable check valve however if price and delivery are better. Likely **will need to install vertically per the attached sketch and make adjustment to length of pipe (ie shorten existing piece in the field or just provide new prefabricated shorter pieces and swap out).**

Thanks

Therlin Montgomery

Wright-Pierce | Project Manager
direct 860.852.1903 | cell 860.604.0034

Town of Killingly
American Rescue Plan Funding Request

Project Name: _____

Organization Name: _____

Address: _____

_____

Type of Organization: _____Non-profit 501(c)3 _____Corporation

_____Municipal _____Other: _____

Organization EIN or Tax ID number: _____ **DUNS No:** _____

Provide a brief outline of the organization and services performed for the Town of Killingly:

_____
_____
_____
_____
_____
_____
_____

Section A. Project Information

Provide a detailed description of the proposed project. Include narrative of how the project will benefit disadvantaged persons/families (qualified census tract or direct benefit) and how you will keep required documentation. If a capital project, attach plans.

Section B. Eligibility

The American Rescue Plan Act statute provides the following four statutory categories which are eligible for funding:

1. **To respond to the COVID-19 public health emergency or its negative economic impacts;**
2. **To respond to workers performing essential work during the COVID-19 public health emergency by providing premium pay to such eligible workers of the recipient, or by providing grants to eligible employers that have eligible workers who performed essential work;**

3. For the provision of government services, to the extent of the reduction in revenue of such recipient due to the COVID-19 public health emergency, relative to revenues collected in the most recent full fiscal year of the recipient prior to the emergency; and
4. To make necessary investments in water, sewer, or broadband infrastructure.

Additional guidance on the above eligibility categories is available at https://home.treasury.gov/policy-issues/coronavirus/assistance-for-state-local-and-tribal-governments/state-and-local-fiscal-recovery-funds. Review the Interim Final Rule and FAQ documents for more details.

Outline how your proposed project meets the above eligibility requirements:

Section C. Costs

Provide a detailed budget. Complete and attach the budget form.

Is this project a one-time investment or an on-going program?_____

If this project is for an on-going program, please describe the future funding source possibilities when the American Rescue Plan Funding has expired.

Is this a regional project? _____ Yes _____ No

If yes, describe the project request allocation including which additional towns funding has been requested and methodology for allocation.

Section D. Timeline

Provide a start and end date for the project/program. Include major milestones with proposed dates.

Section E. Certifications

1. I certify that _____ is eligible under the
   Project/Program

   American Rescue Plan (ARPA). _____ Initial

2. I certify that I will comply with all applicable State and federal procurement requirements for this program. _____ Initial

3. I certify that I will report semi-annually to the Town of Killingly the progress of the project/program including beneficiaries and monies expended. _____ Initial

4. I understand and certify that the Town of Killingly will recapture funds for the project/program if they are not expended pursuant to all American Rescue Plan (ARPA) regulations/requirements.
   _____ Initial

The undersigned is hereby authorized to submit this application on behalf of the above organization, is qualified to complete the project/program described, and will comply with all regulations/requirements of the American Rescue Plan (ARPA) funding.

_____ _____

Name Date

_____

Title

Capital Project Budget Form

Category	ARPA Budget Amount	Other Funding Amount	Total
Soft Costs			
Construction			
Administration			
Total			

Please provide details for soft costs including architectural/engineering, advertising, other (please specify).

Please provide details for administration including personnel/position, annual salary, level of effort, cost, fringe benefits, general office supplies, other (please specify) with justifications.

Program Budget Form

Category	ARPA Budget Amount	Other Funding Amount	Total
Personnel			
Fringe			
Travel			
Equipment			
Supplies			
Contractual			
Other			
Total Direct Charges			
Indirect Charges			
Total Project Costs			

Please provide details including personnel/position, annual salary, level of effort, cost, supplies and equipment needed, required travel, contractual services needed, other (please specify) with justifications.

Will revenue be earned from the Program? If yes, please detail the cost of services and the estimated revenue earned monthly for the program term.

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

MEMO

To: Chief Elected Officials, Operators of domestic sewage collection and treatment systems, and Directors of Health

From: Jennifer L. Perry, P.E., Director, Water Planning and Management Division

Re: Requirements of Connecticut General Statutes (CGS) § 22a-482-4 and Public Act 21-42, effective October 1, 2021

The Department of Energy and Environmental Protection (DEEP) is sending this notification as a reminder of changes to the Sewage Right to Know statute, effective on October 1, 2021, due to the passage of Public Act 21-42. Please review the following summary of the significant changes and the entirety of the statute to completely understand your obligations.

Current language:

CGS § 22a-482-4(c)(3):
(3) On and after July 1, 2018, not later than two hours after becoming aware of any sewage spill that exceeds five thousand gallons or that is anticipated to exceed five thousand gallons, the operator of a sewage treatment plant or collection system shall notify the chief elected official of the municipality where the sewage spill occurred. As soon as practicable after receiving any such notification, such municipality shall inform the public and downstream public officials, as appropriate.

Changes per PA 21-42, effective October 1, 2021 (note: additions are identified by underline and deletions have been removed from the text below for ease of review):

(3) On and after July 1, 2018, not later than two hours after becoming aware of any sewage spill or permitted sewage bypass that reaches a water body or may come in contact with the general public, the operator of a sewage treatment plant or collection system shall notify the chief elected official, or such official's designee, and the local public health official of the municipality where the sewage spill or permitted sewage bypass occurred and the chief elected official, or such official's designee, and the local public health official of any municipality that may be potentially impacted downstream by such spill or sewage bypass. As soon as practicable, but not later than two hours after receipt of any such notice pursuant to this subdivision, each such chief elected official, in conjunction with the local public health official, shall inform the public of any sewage spill or permitted sewage bypass that has the potential to impact public health, safety or the environment. Any such information provided to the public may be provided through the use of social media and shall be provided in each predominant language spoken by the residents of such municipality.

1. Summary of revised reporting requirements

    a. Operators must notify impacted municipalities of the occurrence of permitted sewage bypasses in addition to the notification of sewage spills required by current law. This change adds permitted sewage bypasses to notification of sewage spills.

        i. "On and after July 1, 2018, not later than two hours after becoming aware of any sewage spill or permitted sewage bypass, the operator of a sewage treatment plant or collection system shall submit an electronic report…" This change requires that all sewage spills, including secondary treatment bypass and combined sewer overflows, must be reported.

    b. Operators must notify impacted municipalities of all sewage spills or permitted sewage bypasses which reach a waterbody or may come in contact with the public. This change removes the 5,000 gallon threshold and replaces with language specifying spills or bypasses which may or do reach a waterbody or come in contact with the public must be reported as noted in number 3 below.

        i. "On and after July 1, 2018, not later than two hours after becoming aware of any sewage spill or permitted sewage bypass that reaches a water body or may come in contact with the general public, the operator of a sewage treatment plant or collection system shall notify the chief elected official, or such official's designee, and the local public health official of the municipality where the sewage spill or permitted sewage bypass occurred"

    c. Additional notification is required when a spill reaches water. This change requires additional reporting to the local public health director in the municipality where the spill occurred as well as the chief elected official(s) and public health director(s) of any potentially impacted downstream communities.

        i. "…and the chief elected official, or such official's designee, and the local public health official of any municipality that may be potentially impacted downstream by such spill or sewage bypass".

The Hartford Steam Boiler Insurance and Inspection Company

HSB Thermography Services
One State Street
Hartford, CT 06102-5024

LOSS PREVENTION REPORT
"THE EQUIPMENT BREAKDOWN SPECIALISTS"

Insured:	Town of Killingly and Killingly Board of Education P.O. Box 6000 Killingly, CT 06239	**HSB ID #: Location #:**	4401022:01320
		Representative:	Bill Viot Inspection Specialist
Location:	Killingly WPCA 31 Wauregan Rd. Danielson, CT 06239	**Service Date:**	9/14/2021
		Report Date:	9/15/2021

SUMMARY

The Killingly WPCA was visited on 9/14/2021 by Mr. Bill Viot. The purpose of the visit was to perform an infrared scan of the electrical supply and distribution system. Vibration analysis of mechanical components was offered as an additional value added service. The client declined vibration analysis services.

Occupancy Description: 352 - SEWAGE TREATMENT & DISPOSAL PLANTS

The following personnel participated in the inspection:

- Mr. Bruce Fountain – O&M Technician

An initial meeting was held to discuss the purpose of this visit, followed by the scan and concluded with an exit interview to review the results of the inspection.

This facility has recently had numerous electrical upgrades. There were no thermal anomalies present at the time of the inspection. An infrared survey should be performed at least every 3 years as part of a good predictive/preventative maintenance program.

Should you have any questions or comments concerning this report or our services, we are here to assist you. Please feel free to contact your Inspector at (860) 281-2541 or by email: William_Viot@hsb.com

The Hartford Steam Boiler Insurance and Inspection Company

HSB Thermography Services
One State Street
Hartford, CT 06102-5024

Electrical System Observation

ELECTRICAL DISTRIBUTION SYSTEM

Level of Risk:	☒ Low	☐ Moderate	☐ High
Level of Risk - Comments:	The facility appears to be well maintained and in good repair. A new main electrical distribution system has recently been installed..		
Operations			
Electrical system greater than (30) years old:	☒ Yes	☐ No	
Changes to electrical system in last (3) years:	☒ Yes	☐ No	
Amperage rating on main incoming electrical disconnect:	☐ ≤400 amp ☒ >1200 amp	☐ 401-1200 amp	
Highest in-house voltage:	☐ 110/220v single phase ☐ >1000v	☒ 208-1000v three phase	
Alternative energy sources are present at this facility:	☐ Yes	☒ No	
Operations – Comments:	480 Volt System. 2000 Amp Main Breaker. Numerous electrical upgrades have been recently completed. Some older electrical distribution still exists.		
System Protection			
Surge suppression devices installed:	☒ Yes	☐ No	
Missing covers:	☐ Yes	☒ No	
Temporary wiring:	☐ Yes	☒ No	
Enclosed ventilated bus ducts – properly supported:	☐ Yes	☐ No	☒ N/A
System Protection - Comments:	Surge suppression is installed on main electrical distribution.		
Testing & Maintenance			
Who maintains the system:	☒ Electrical Contractor ☐ Other	☒ In-House Maintenance ☐ None	
Who conducts annual inspections:	☐ Electrical Contractor ☐ Other	☐ In-House Maintenance ☒ None	
Electrical system received IR scan within last (3) years:	☐ Yes	☒ No	
Testing & Maintenance – Comments:	Maintenance of the electrical distribution system is maintained by an electrical contractor and in-house staff depending on scope of work.		
Housekeeping			
Moisture/Corrosion:	☒ Satisfactory	☐ Unsatisfactory	
Dust/Dirt accumulation:	☒ Satisfactory	☐ Unsatisfactory	
Storage/Debris/Combustible Material:	☒ Satisfactory	☐ Unsatisfactory	
Housekeeping - Comments:	Housekeeping is adequate at this facility.		
Main Transformer (Insured Owned)			
Size:	2000 kVA		
Oil/Gas analysis:	☐ Yes	☐ No	☒N/A
Transformer - Comments:	Utility owned.		

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Hartford, CT 06102-5024

General Electrical Observations

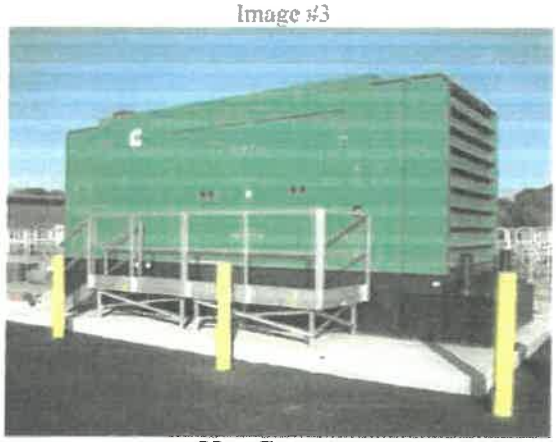
Image #1

Utility Feed

Image #2

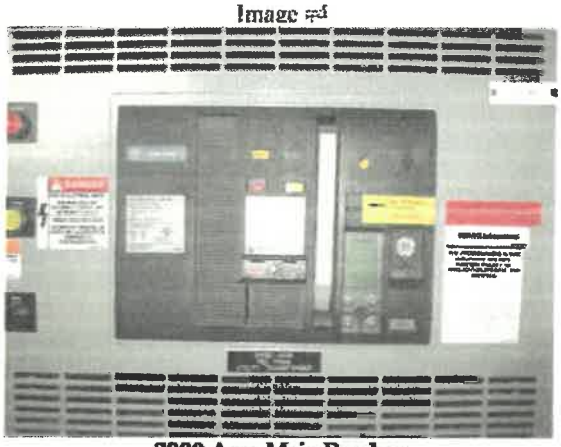
2000 kVA Utility Transformer

Image #3

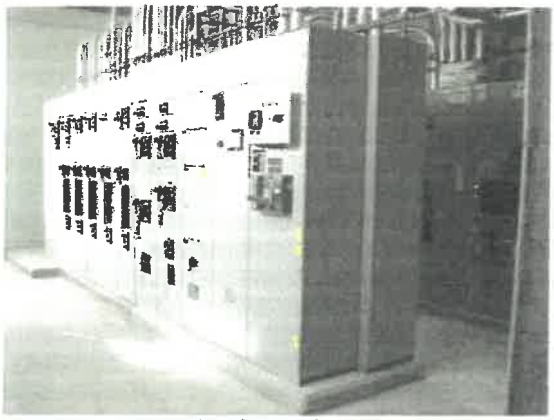


New Generator

Image #4



2000 Amp Main Breaker



Main Electrical Room

Surge Suppression

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OVERVIEW

Infrared thermographic surveys are non-contact, non-destructive examinations used to find abnormal or unexpected thermal patterns or temperature differentials. These thermal patterns may indicate such conditions as loose connections, overloaded circuits or phases, deteriorated or damaged insulation or refractory, or excessive or unwanted friction, among others.

To perform the thermographic survey of your facility, HSB Thermography Services used the FLIR Thermacam infrared imaging system. This system utilizes the latest developments in un-cooled technology to generate the most accurate data available.

The calibration for this system is certified traceable to The National Institute of Standards and Technology, NIST, USA and the Swedish National Testing and Research Institute, SP. This calibration is based on the International Temperature Scale (ITS-90).

Mr. Viot is a Level II Thermographer certified in accordance with the American Society of Nondestructive Testing (ASNT) SNT-TC-1A and Hartford Steam Boiler Inspection and Insurance Company's Qualification Standards.

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If you would like to learn more about electrical risk management, please click on the following link:

http://www.hsb.com/hsbext/Electrical_Risk_Management/

HSB Thermography Services

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