## **Cyber Informed Engineering**

SRF Perspective



Rosemary Regner Sr. Grant and Loan Engineer

## **Agenda**

- Cyber Security is Coming to SRFs
- How Idaho DEQ Approached **Cyber Security**
- What We Can Do!
- Idaho Cyber Security

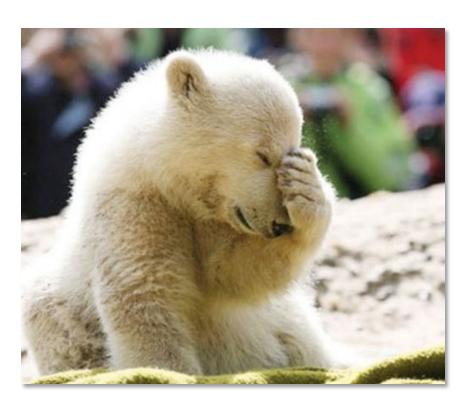


### Cyber Security is Coming to SRFs

- Nation-wide Cyber Security requirements are coming
- It's not if, but when new regulations arrive, Idaho is trying to get out ahead of it
- White House Letter to Governor regarding Cyber Security Plan



### **How Can We Be Cyber Experts TOO?**



- Good news! We aren't the Cyber Experts
- We Are the Information Gate Keepers!
- Cyber Informed Engineering (CIE) is a common-sense approach for the water sector

### **Idaho Water Sector**

**Total DW Systems** – 2,014 **By Population** <3,000 – 97% <10,000 – 99%

**Total CW Systems** – 370 **By Population** <3,000 – 76%

<10,000 – 85%

Most systems are too small for current Cyber Security initiatives



### How Idaho Approached Cyber Security

### Do Something!

One person attended cyber webinars and virtual conferences:

- Collected resources
- Eventually had a basic understanding of Cyber Security
- Gauged what the industry was doing
- Found Cyber Experts in the Water Sector, someone must already be working on this!



### What We Can Do!

### SRFs can:

- Internal Training on Cyber Security
- Direct engineers to information on Cyber Security and Cyber Informed Engineering (CIE)
- Include Cyber Informed Engineering (CIE) rating points in the LOIs
- Have a Cyber Security point person in program
  - Collect resources
  - It eventually starts to make sense!
- Include Cyber Best Practices & Current Trends in your newsletters and outreach



## Idaho FY2026 Planning Grant LOIs

- Met with Industry Experts and discussed incentivizing Cyber Informed Engineering (CIE) in our Letters of Intent (LOIs)
- Wanted to ensure that we asked for something that was achievable in the Cyber Community

#### C. Sustainability (Green) Infrastructure Efforts

IDAPA 58.01.22.020.02.c. Sustainability Efforts (e.g., prospective efforts at energy conservation, water conservation, extending the life of capital assets, green building practices, and other environmentally innovative approaches to infrastructure repair, replacement, and improvement). Up to 50 points.

Answers to the following questions can improve your overall rating. If you earn Priority List points for your responses in this section, you or your project engineer will need to evaluate or complete each item under the terms of the planning grant agreement.

Although only 50 points can be awarded under Section II.C, DEQ will incorporate all sustainability items selected below into the scope of the grant agreement for inclusion in the planning document. All the items selected shall be addressed in the planning document.

#### Select all that apply - 5 points each (unless otherwise noted), up to a maximum of 50 points.

- Management-based/Innovative Efforts: These efforts could include the following:
  - As part of the planning effort, cyber informed engineering (CIE) principles will be incorporated, critical systems will be identified, and plans to integrate the CIE methodology in future projects will be developed. CIE resources can be found at: (https://inl.gov/national-security/cie/) 20 points

## Idaho FY2026 Planning Grant LOIs

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### Idaho FY2026 Loan LOIs

- Met with Industry Experts and discussed incentivizing Cyber Informed Engineering (CIE) in our Letters of Intent (LOIs)
- Wanted to ensure that we asked for something that was achievable in the Cyber Community

#### C. Sustainability (Green) Infrastructure Efforts

IDAPA 58.01.12.020.03.c. Sustainability Efforts (e.g., prospective efforts at energy conservation, water conservation, extending the life of capital assets, green building practices, and other environmentally innovative approaches to infrastructure repair, replacement, and improvement). Up to 50 points.

Answers to the following questions can improve your overall rating. If you earn Priority List points for your responses in this section, you or your project engineer will need to evaluate or complete each item under the terms of the loan agreement.

Although only 50 points can be awarded under Section II.C, DEQ will incorporate all sustainability items selected below into the scope of the loan agreement for inclusion in the construction loan. All the items selected shall be incorporated into the project design and completed during construction.

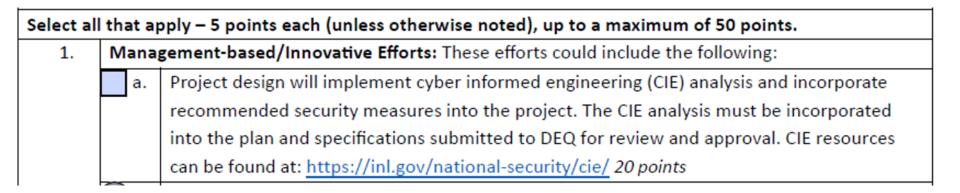
#### Select all that apply - 5 points each (unless otherwise noted), up to a maximum of 50 points.

Management-based/Innovative Efforts: These efforts could include the following: 1.

> Project design will implement cyber informed engineering (CIE) analysis and incorporate recommended security measures into the project. The CIE analysis must be incorporated into the plan and specifications submitted to DEQ for review and approval. CIE resources can be found at: https://inl.gov/national-security/cie/ 20 points

### Idaho FY2026 Loan LOIs

- Met with industry experts and discussed incentivizing Cyber Informed Engineering (CIE) in our Letters of Intent (LOIs)
- Wanted to ensure that we asked for something that was achievable in the Cyber Community



# **Consultant Training**

- Our approach requires the Consultants to be trained
- INL has committed to provide training for Idaho Consultants
- Eventually want a Cyber Informed Engineering (CIE) certification be available
- We will review how our approach worked FY2026 and adjust as needed

## **Industry Partners**

Special Thanks to:

**Andrew Ohrt from West Yost &** 

Virginia Wright from Idaho National **Laboratory (INL)** 



### **Questions?**



MaryAnna Peavey Grants and Loans Bureau Chief