



Protect Your Utility What You Can Do to Prevent and Mitigate Hostile Events

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Welcome

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Objective

Share best practices and lessons learned from real world experiences, including past incidents so that attendees can build or improve upon security and incident management policies at their utilities.

Session Structure

- This session will be conducted in **two modules**:
 - Module One: Selection & Surveillance & Attack Preparation
 - Module Two: Attack & Escape
- Each module will begin with a **situation update**.
- Facilitators will share **best practices**.
- Participants are invited to **comment and ask questions**.

Framing: Hostile Events Attack Cycle

- Hostile Events include **active shooter incidents, workplace violence and workplace attacks, lone actor and low-tech terrorism, complex coordinated terrorist attacks, fire as a weapon, weapons of mass destruction,** and other related activities.
- Characterized by a variety of means, weapons, and tactics used to cause physical injury or death.



Hostile Events Attack Cycle

Module II:

- Attack & Escape
- Response, Immediate Actions

Module I:

- Selection & Surveillance
- Pre-Incident Preparedness
- Attack Preparation
- Indicators, Reporting

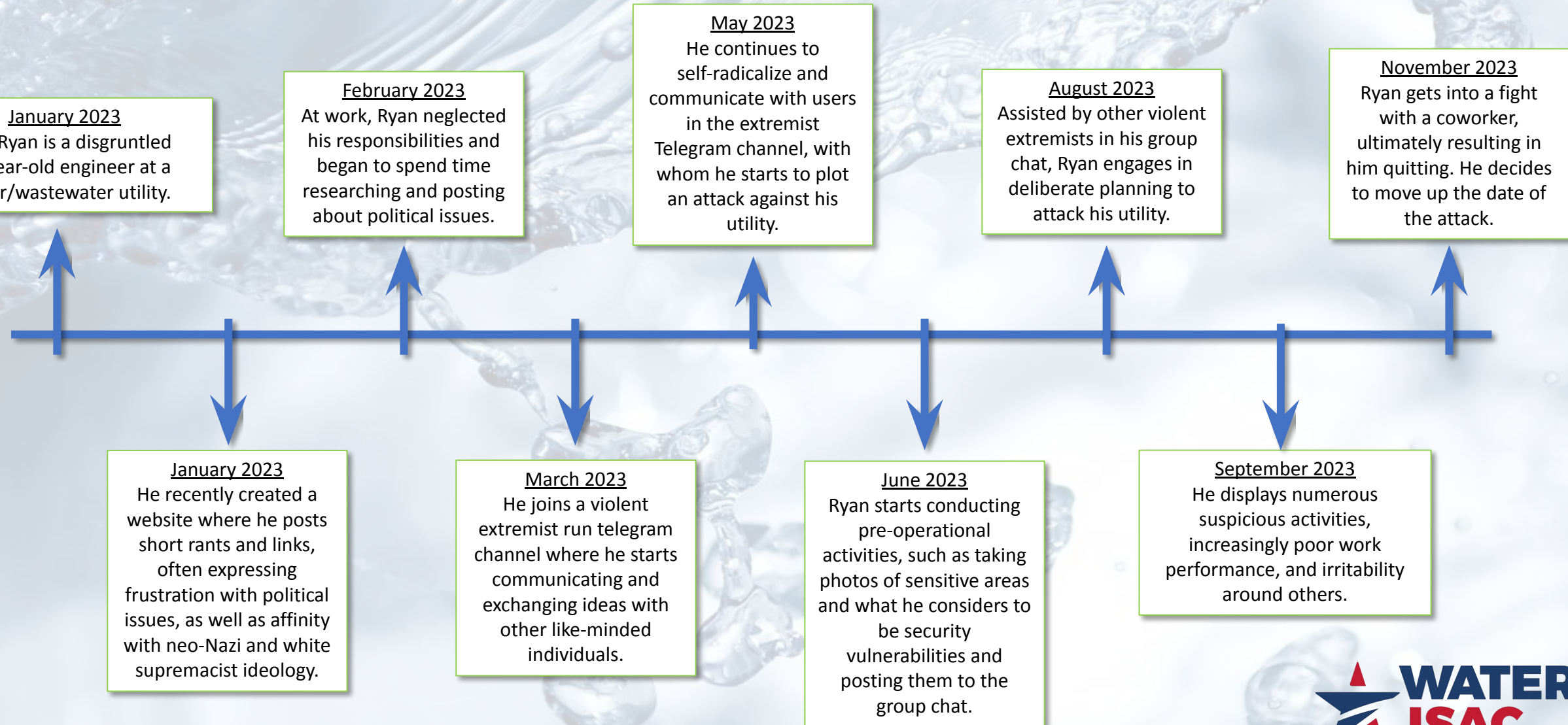


A high-speed photograph of water splashing, creating a dynamic and textured background. The water is captured in mid-air, with numerous droplets and bubbles visible, giving it a sense of movement and energy. The overall color palette is light blue and white, with some darker blue highlights in the water's crevices.

Module One

Selection & Surveillance & Attack Preparation

Selection & Surveillance & Attack Preparation - Timeline



Hostile Events Preparedness

1. Are your personnel aware of the diverse threats your utility may encounter (e.g., Homegrown Violent Extremists, Domestic Violent Extremists, Racially Motivated Violent Extremists, Common Criminals).
 - a. Do you receive and review threat, incident, and / or suspicious activity reports from local law enforcement, fusion centers, other government entities, or other partners?
 - b. Are you working with neighboring utilities or other infrastructure organizations?
2. Are your organization's personnel trained to look for and report suspicious activities and potential pre-operational indicators?

Insider Threat Awareness

3. Do you have policies for reporting insider threats at your organization?
 - a. Does your organization regularly train and/or remind employees about reporting insider threats?
4. Do you have policies regarding:
 - a. Employees bringing firearms to work
 - b. Photography of the utility
5. What are your procedures for employee termination and revoking access privileges?

Operational Preparedness

6. Would you share information about suspicious activities and incidents with partners (e.g., local law enforcement, fusion centers, WaterISAC)?
7. Are you working with hometown security partners – including law enforcement, neighboring utilities, and any other community organizations to develop and enhance preparedness?
 - a. Have you conducted a physical security assessment?

Best Practices

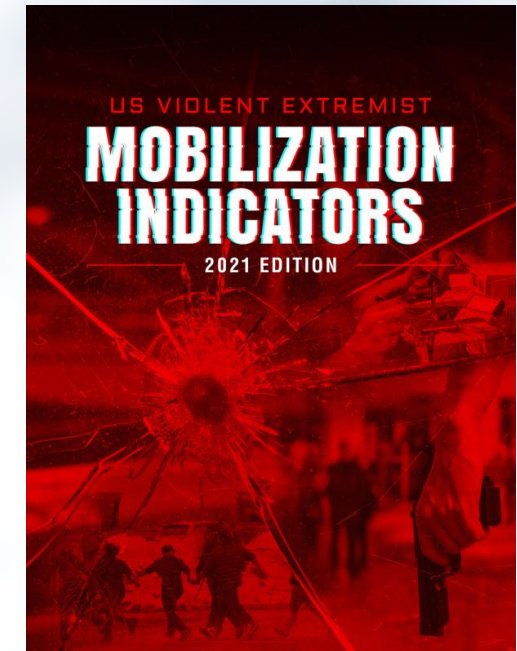
- Email inbox for employees to report security issues
 - [Insider Threat Mitigation](#) (U.S. DHS)
 - [U.S. Violent Extremist Mobilization Indicators 2021](#) (U.S. ODNI)
 - [Nationwide SAR Initiative](#) (U.S. DHS)



Source: U.S. DHS National Threat Evaluation and Reporting Office Presentation



Source: C. Egli



Source: U.S. ODNI



Best Practices

- Utility plans and policies
 - Insider threat, workplace violence, emergency response, drone
 - Prohibited items policy
 - Employee separation protocol
 - Retrieve/disable badges
 - Periodic badge audit
 - Utility-wide notice
 - Contractor challenges



Source: U.S. Navy

Best Practices

- Participation in information sharing communities (fusion centers, local law enforcement, other utilities, ISACs)
 - [Royal Canadian Mounted Police](#)
 - WaterISAC reporting tools
 - Call 1-866-H2O-ISAC (1-866-426-4722)
 - Email analyst@waterisac.org
 - [Submit a report online](#)
- Physical security assessments

CONFIDENTIAL INCIDENT REPORTING FORM

Information concerning the identity of the reporting agency, department, company, or individual(s) will be treated on a confidential basis. A WaterISAC analyst will contact you once the report has been received. Some fields can be left blank for anonymity. You may also simply call us at 866-H2O-ISAC or email analyst@waterisac.org.

For information on what to report and for contact information for federal authorities, visit [Report Incidents and Suspicious Activity to WaterISAC and Authorities](#).

Source: WaterISAC

A high-speed photograph of a water splash, with a large, billowing wave of water at the top and several smaller droplets falling below. The water is clear and bright, with highlights from light reflecting off its surface.

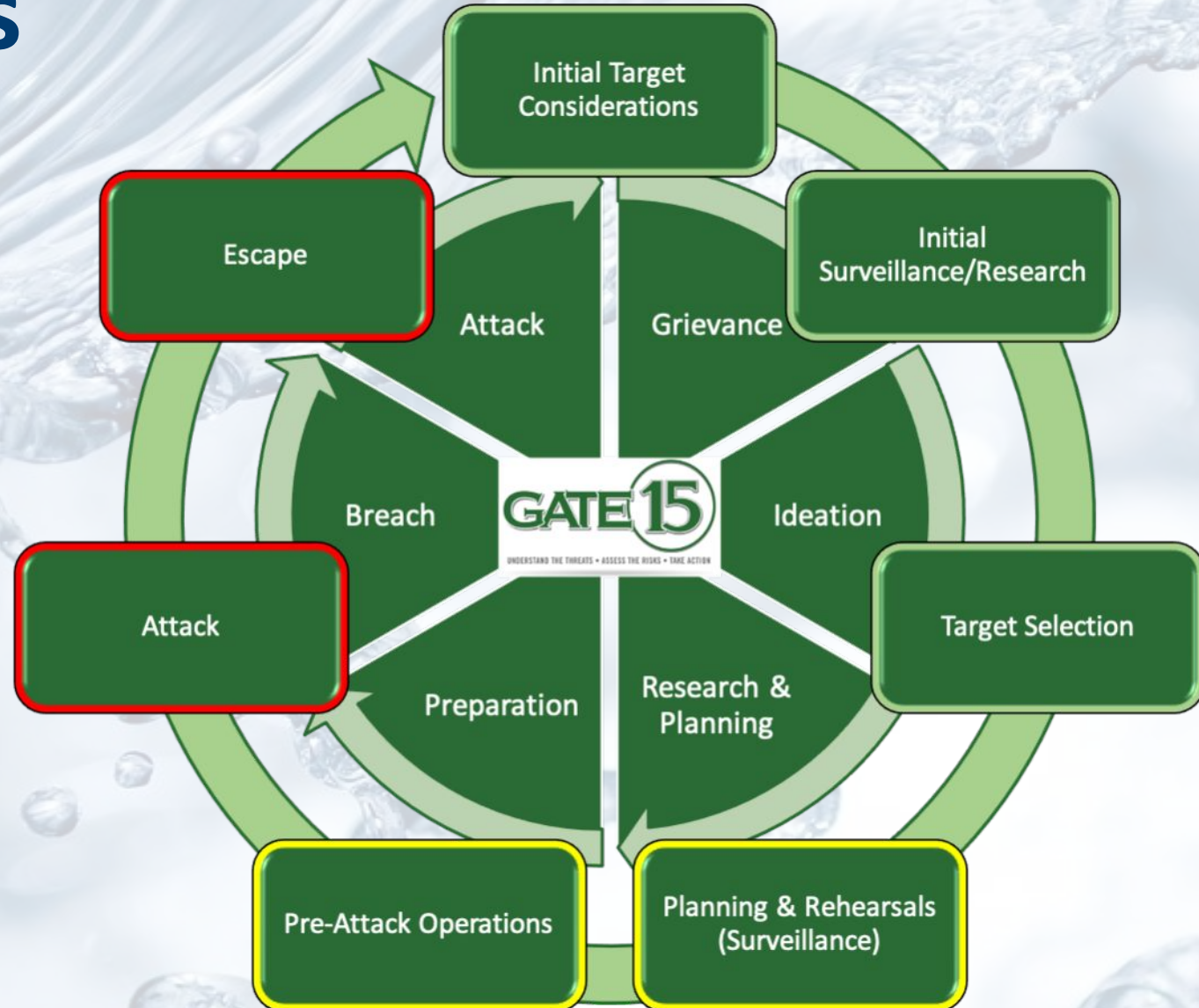
Module Two

Attack & Escape

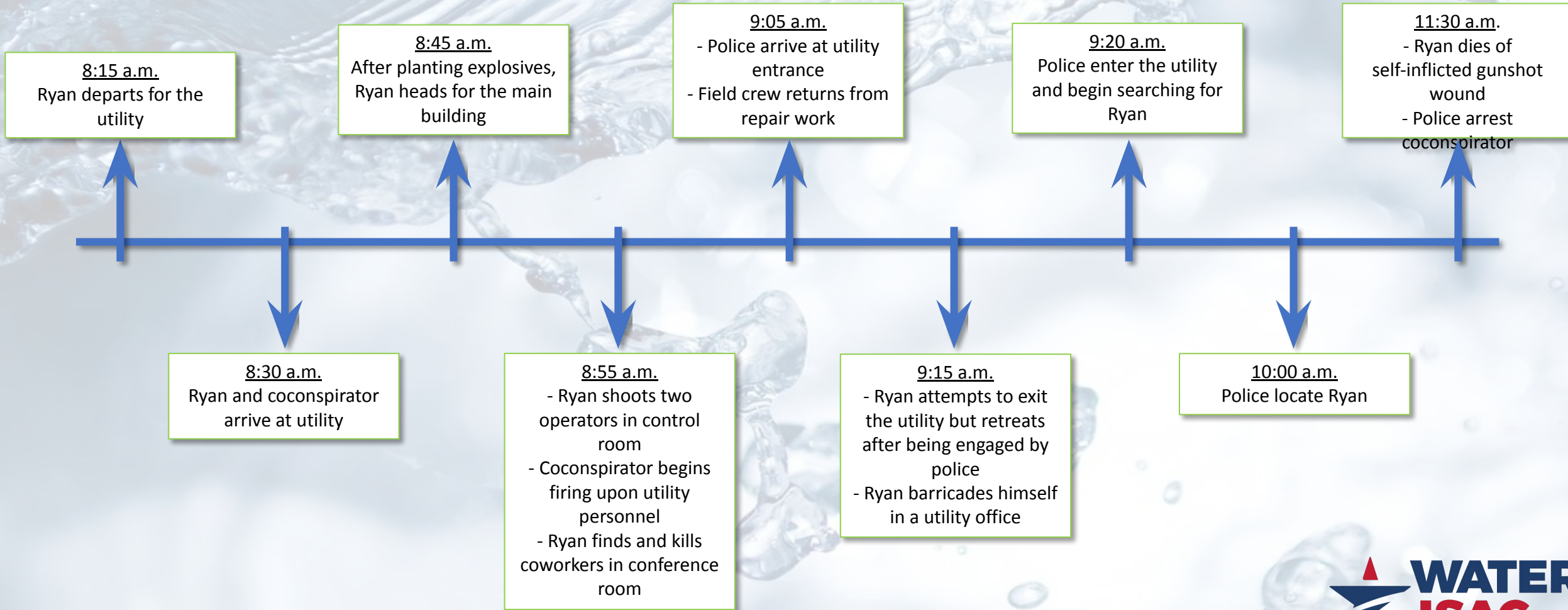
Hostile Events Attack Cycle

Module II:

- Attack & Escape
- Response, Immediate Actions



Attack & Escape - Timeline



Hostile Events Response

1. What security measures (equipment, technology) do you have in place to counter the threat and reduce the risks of hostile events?
2. What kind of access controls/barriers do you have at your facility?
 - a. Can the public easily enter your facility?
3. To what extent have you coordinated with law enforcement beforehand?
 - a. Site familiarization
 - b. Key card access and use

Operational Response

4. Do you have a security team at your facility?
 - a. If not, who provides security?
5. How do you communicate incidents (from spills to hazards to incidents and attacks) within your organization?
6. Have your utility's personnel been trained on how to respond to an active shooter incident?
 - a. Do you conduct exercises?
 - b. Have they been trained in basic first aid?

Best Practices

- Specialized training
 - Active shooter response (e.g., ALICE)
 - [STOP THE BLEED](#) (American College of Surgeons)



Source: StoptheBleed.org

Best Practices

- Crisis communications
 - Employee emergency alert system (e.g., Everbridge)



Source: Ready.gov

Best Practices

- Working with local law enforcement
 - Additional training and exercise opportunities
 - Facility walk-throughs
 - Use of facilities for training, including by SWAT teams
 - Key box (e.g., KnoxBox®)



Source: Wikimedia Commons



Source: The Knox Company

Sector Areas for Improvement

- Ability to monitor social media
- Threat awareness
 - Contract security and high turnover rate
- Thresholds for information sharing
- Regular training and exercises

Other Challenges

- Responding to:
 - A HAZMAT release
 - Manipulation of the treatment process
- Infrastructure/equipment vulnerabilities to gunfire
- Security of remote facilities
- Physical layout of facility available on the Internet
- Visitors
- Recovery

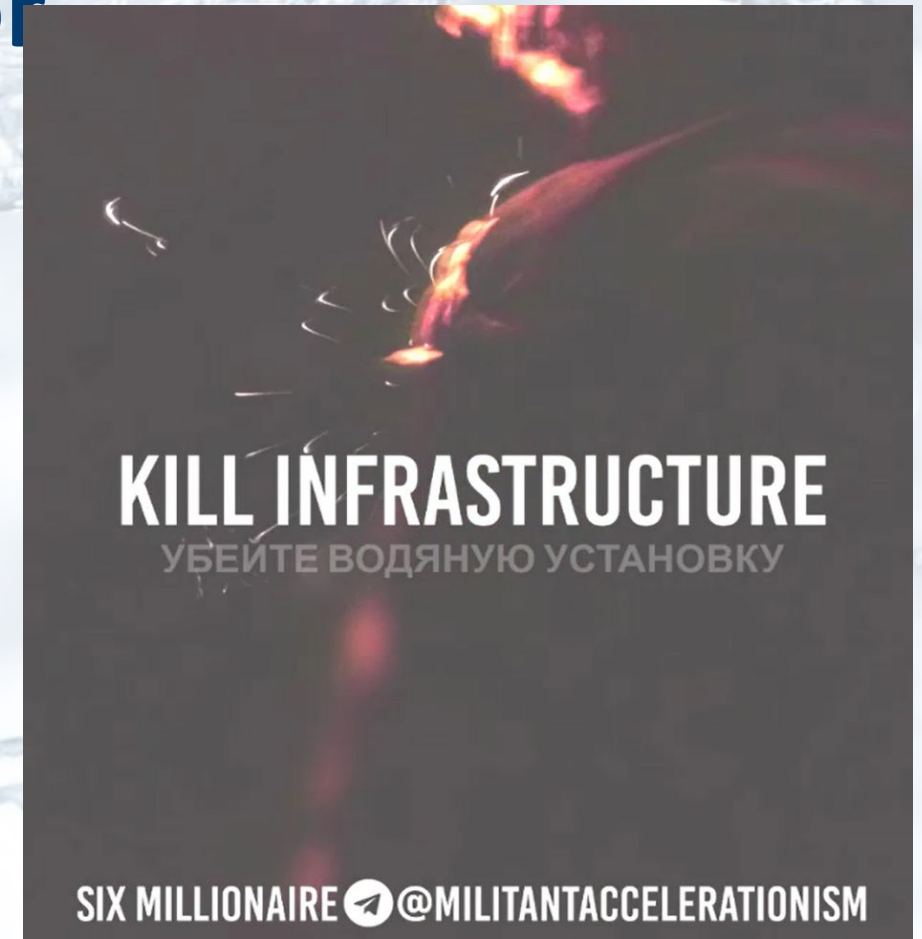
Intentional Attacks on North Carolina Electric Substations Result in Power Disruptions for Thousands (WaterISAC)



Source: The News & Observer

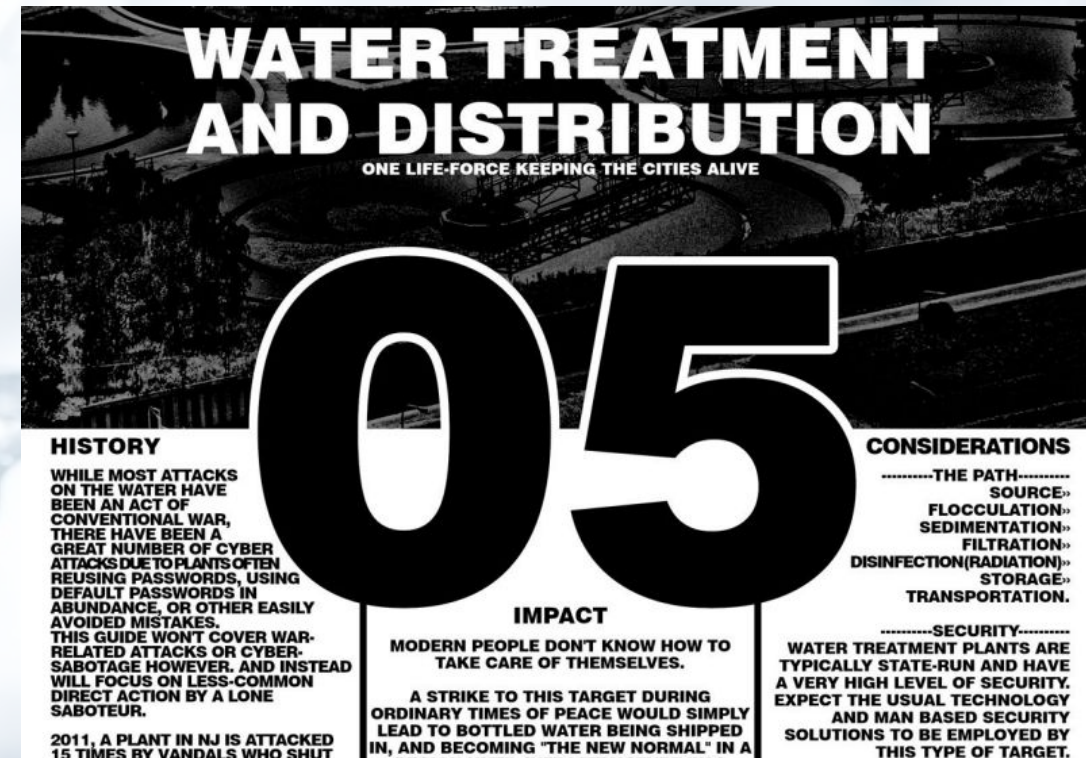
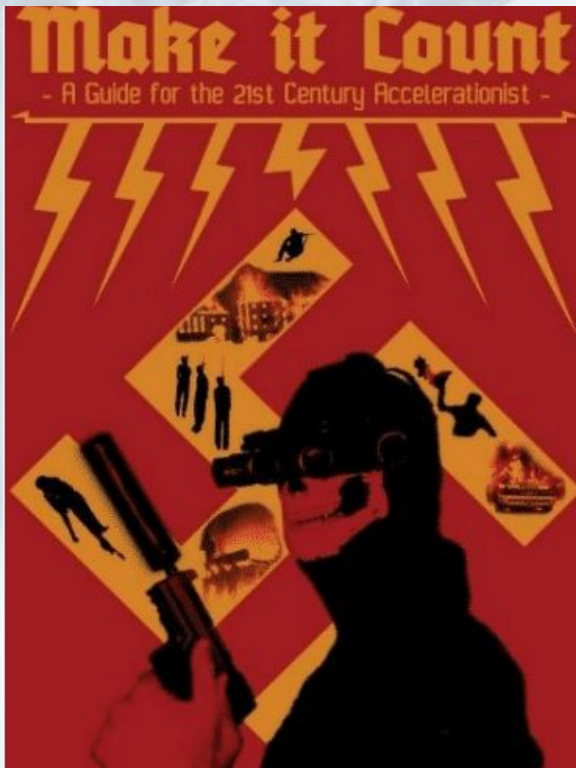
Notable Terrorist/Extremist Plots and Incidents involving the Sector

- Feb. 2014: Georgia – Plot by militia members to trigger violent conflict against the government by attacking water utilities.
- Jun. 2018: Wisconsin – An Islamic State supporter used a pro-Islamic State social media account to encourage a suspected Islamic State follower to poison water reservoirs with ricin.
- Nov. 2021: Maryland – Members of the neo-Nazi group “The Base” were sentenced to nine years in prison for planning to poison water supplies and engage in other terrorist activities.
- Jun. 2021: Unknown – Domestic violent extremists shot at a purported water treatment plant in a video.



Violent Extremist Publications

- Militant Accelerationism
- Make It Count: A Guide for the 21st Century Accelerationist
- Do it For the 'Gram
- The Hard Reset

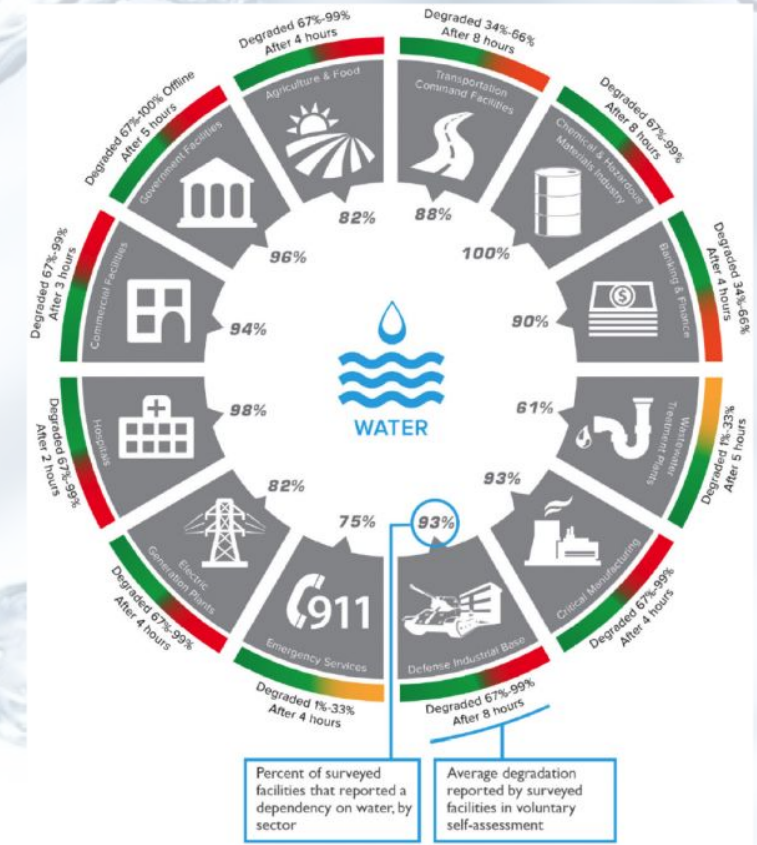


Other Critical Infrastructure Sectors

- Dec. 2022: North Carolina Substation Attacks
- Apr. 2023: “How To Blow Up A Pipeline” Film
- Jun. 2023: Idaho/Oregon Dam Attacks



Source: City of Virginia Beach, Virginia



Source: U.S. NIAC, July 2016

Additional Resources

- [National Strategy on Countering Radicalization to Violence](#) (Public Safety Canada)
- [Prevention and Intervention Programs](#) (Public Safety Canada)
- [Active Shooter Preparedness](#) (U.S. Cybersecurity and Infrastructure Security Agency)
- [Know the Signs: A Guide for Identifying Signs of Violent Extremism](#) (New Zealand Security Intelligence Services)
- [Hostile Event Attack Cycle](#) (Gate 15)

Questions and Comments?

Contact information

**60-DAY FREE
MEMBERSHIPS
AVAILABLE!**

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Website | www.waterisac.org

Incident Reporting Form | <https://www.waterisac.org/report-incident>

24 Hour Line | 866-H2O-ISAC

Email | analyst@waterisac.org

A high-speed photograph of water splashing, creating a dynamic and energetic background. The water is captured in mid-air, with numerous droplets and a large, billowing splash that fills the upper half of the frame. The lighting is bright, highlighting the transparency and texture of the water.

Thank you!