



# Cyber Incident: Ras Abu Desalination Plant

**Where** Doha, Qatar

**When** November 21, 2022



**What**

- Short-term water supply disruptions inciting brief panic in local populace
- Displays at plant listed names of migrant worker known to have died
- Water supply nominal after a few days

**How**

- Alleged exploits (as assessed by Chinese IRC)
- STANDINGPALM – backdoor inserted via update in Yuma software used at desalination plants, attributed to USG by Chinese IRC
- ROCKSHOT – caused malfunction in temperature control sensors

**Who**

- Unassessed based on current reporting, uncertainties and intelligence gaps
- Chinese IRC attributed STANDINGPALM to USG
- Private researcher attributed ROCKSHOT to UAE

**Assessment** Currently multiple critical uncertainties and intelligence gaps; reliance on uncorroborated third-party claims and analysis; STANDINGPALM and ROCKSHOT not definitively known to originate from same threat source or to operate as package

**Risks to CNI**

**Reactions of allies**

**Chinese role in Qatar**

**Other actors**

**Implications and Considerations**

## NSC Strategic Objectives

Decrease uncertainty, know the risks	Demonstrate U.S. as a responsible cyber actor	Limit China's ability to exploit situation
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**Recommended Actions**

**Understand**

1. USCYBERCOM and CIA to conduct internal review of cyber operations to understand origin of STANDINGPALM and extent of any possible USG utilization of it **By December 11**
2. DNI to analyze and assess perpetrator of Ras Abu Fontas cyber incident and origin of ROCKSHOT malware and to develop options for public attribution based on level of confidence and classification of supporting intelligence **By December 14**

**Prepare**

3. CISA and EPA, with support from relevant private sector coordinating councils, to conduct domestic vulnerability assessment of Yuma software and specific ICS exploits and, where relevant, provide prioritized remediation strategy – to be supported by general information campaign, promoted by EPA (e.g. “desalinate the network”) **By end December**

**Reassure**

4. With FBI in lead via UAE LEGAT relationships, CISA to publicly offer technical support to Qatar to collect technical evidence and assist with remediation, while simultaneously requesting Fenghuang Labs to publicly share evidence used for analysis **By December 15**
5. USG to use non-public classified military and diplomatic channels to reassure FVEY and NATO allies regarding its alleged involvement in incident and will share information when available **Ongoing**

**Gather, Assess, Consider, Act, Review**