



Kationx Technology for Removing Hydrogen Sulfide, Odors, and other Reactive Gases & Vapors

An Alternative Technology Proposal for Jefferson Parish, LA

Background

Kationx technology is actively used in 16 states plus Puerto Rico to remove Hydrogen sulfide (H₂S), other reactive gases and vapors, odors plus fats, oils & greases (FOG). With routine use, KCDX physically REMOVES the problem. Wager's technology only masks the problem.

- RUGGEDLY RELIABLE, on-demand, **H₂S/Odor/VOC + FOG control** (reduction / removal), with
- SAFE, simple & easy to use products that
- REDUCE costs, complexity, and risks with IMPROVING operational performance, safety, and environmental outcomes.

Benefits include:

- No site prep required.
- Simple. Pop the lid, stir the powder to fluff the stuff, then dump the bucket
- Odors removed instantly. Immediately observable effects on gas detectors
- Treats DOWNSTREAM, too.
- All-in-One Performance, removing:
 - Hydrogen sulfide
 - Carbon Monoxide
 - VOCs (volatile organic compounds / solvents)
 - Other reactive Gases & Vapors
 - FOG (fats, oils, & greases)
- Product has no shelf life. Store outdoors or in the back of the work truck.
- FFP Pricing includes shipping & handling + training & tech support. Relatively inexpensive.
- Made in USA. US-ONLY supply chain. Orders available same / following week.
- NO competitive bids required. Manufactured by an **AbilityOne Partner**. Federal Statues allow sole source procurement.
- National Stock Number: **7930-01-700-0766** federally vetted pricing
- **Lafayette-based Distributor / SME**
Louisiana Wastewater Systems
Jason Romero CEO
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Hydrogen Sulfide Control

More utilities are selecting KCDX to keep their wastewater collections systems smoothly functioning. It performs simultaneously in both air & water phases. By eliminating odors & gases, KCDX reduces corrosion and raises pH. FOG control reduces and eventually eliminates the food source for anaerobic bacteria; and, also eliminates FOG clogs and resulting SSOs (sanitary sewer overflows).



Hydrogen Sulfide = 169 ppm BEFORE

30 ppm AFTER 5 minutes

1 Bucket KCDX into Master Lift Station well, Charlotte Co FL FTX 21 Feb 23.

1007 HOURS	1027 HOURS	Reduction 20 min later
169 ppm H ₂ S	30 ppm	< 83%
66 ppm CO	12 ppm	< 82%
17% LEL = 8,500 ppm CH ₄	5% LEL = 2,500 CH ₄	< 70%



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Customer Insight

Good morning, Everyone,

My department installed the KCD and KCD-X one bucket of each on March the 15th at the Grand Master Lift Station here at East Port.

Please see the attached pictures - it is definitely working I think very well we still need to be able to take better pictures.

I cannot stress enough how we need to get this in the field to attack H₂S before it gets here.

The distribution box has extreme Sulfide gas inside it was 80 on the meter before opened and over 200 inside. After KCD-X it went to 50 ppm within just a few minutes. Our gas detectors do not have the tube set up to be able to accurately record the readings due to immediate change in numbers when lowering the meter by a rope and then retracting it.

I will get the count of the KCD we have left so we can switch them out for the KCD-X for a small difference in price.

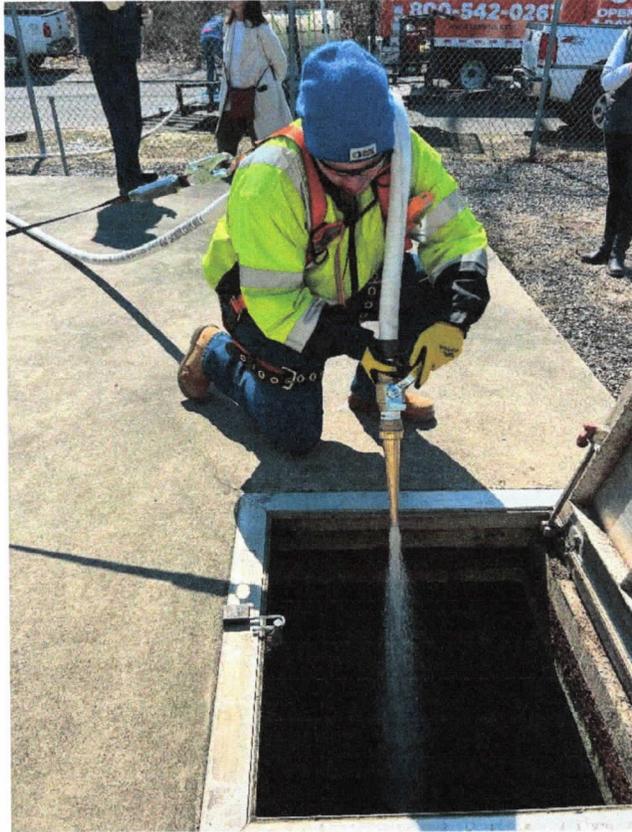
Thank you.



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FOG Control

KCDX also removes accumulated fats, oils, & greases (FOG). Best performance is achieved by jetting an emulsion into a well. Jetting emulsifies FOG mats inside the well AND accumulated, encrusting FOG downstream inside lines & mains.



(Left) Connecticut. Kennedy LSCS Crew Member jets a master lift station that's an ongoing FOG problem for the city. Two FOG mats were emulsified, and the city's union crew was advised to jet this station with 2-3 buckets of KCD at least weekly until FOG significantly reduces. (Below) two LSCS Crew Members share their excitement at a FOG mat emulsified after just a 5-minute jetting job. A city supervisor looks on.



*Non-profit **The Kennedy Collective** is a Kationx Distributor. They develop disadvantaged adult workers. This program is now going nationwide through AbilityOne's SourceAmerica.*



Recommendations (= 30 pallets KCDX per year)

Solicitation Jeff. Parish	KCDX Recommendation		total buckets week
	KCDX Bkts / site / week	#sites / wells	
2050-1350	1	13	13
2050-1006	1	1	1
2050-1004	1	3	3
2050-900	1	1	1
2050-450	1	6	6
2050-100	1	4	4
3000	1	2	2
Totals		30	30
		1560	buckets / yr
		58	pallets / yr

The Jefferson Parish bid identifies 30 sites that require H2S treatment. These, in turn, can be treated with 30 KCDX buckets on a weekly basis.

Importantly, KCDX buckets treat the well and continue working downstream.

Actual gases & odors may also be generated (mostly from accumulated, encrusting, FOG inside lines) upstream. Consideration should be given to at least occasional treatment upstream from each “problem” well. These treatments would:

- Scavenge gases, VOCs, and odors
- Strip away FOG layers

Treatment options include: (1) simply dumping a bucket; and (2) jetting. For jetting applications, one bucket of KCDX added to water makes up to 400 gallons of emulsion. Jetting is easily accomplished using a trash pump.

Uniquely, both techniques treat the well, plus downstream infrastructure.



Treating high-H2S wells is this easy.

Kationx recommends the following steps:

Open the hatch and let CH4 vent

Open bucket and stir to fluff powder – the dust does the work, creating massive surface area to scavenge negatively charged molecules.

Dust coats interior surfaces to continue working for up to 2 weeks after treatment.

Compare the Differences:



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Bid	Kationx KCDX	
Bid Required	yes	no – AblityOne certified product
Equipment Needed	yes	none
Installation	yes	no
Maintenance	yes	no
Fixed Facilities	yes	no
Flexible Response	no	yes – use when & where needed
Media	additional cost	none – embedded / included
Special Tools & Training	yes	no
Treats Air Phase	yes	yes
Treats Water Phase	no	yes
Treats Downstream	no	yes
Controls / Removes FOG	no	yes
Other Uses	none	Treatment Plant – odor control HAZMAT incident response Fuel Vapors Reactive Chemicals

KCDX is non-toxic, non-corrosive, flora & fauna safe.

5 minutes later – 90% of H2S is already gone!

