



Full Scale SX Plant 2

SX Kinetics, Inc. designed, manufactured, and installed this solvent extraction plant for the recovery of scandium from tantalum residues.



Project: sxk-08

Client: Fansteel Corporation

Location: Muskogee, OK, USA

Stages: 7

Capacity: 40 L/min (org + aq)

Recycle: optional organic or aqueous

Items Provided:

- Mixer-settlers with covers, coalescing baffle, and adjustable aqueous weir
- SX impellers coupled to in-line speed reducers and TEFC motors
- Organic surge tank with aqueous coalescer baffle and LED aqueous indicator
- Exhaust header connected to each vessel for removal of organic vapours
- Feed and transfer tanks with centrifugal magnetic drive pumps
- SX feed polishing filters with a supply of filter media
- Containment drip trays under the mixer-settlers and pumps
- Crud treatment circuit to include treatment tank, pre-coat tank, and filter press
- Process control components to include level and flow transmitters with VFD's
- Completely assembled at client's site on an epoxy coated support frame

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