



AL-6XN Alloy Chosen For Turning Vane At Central Illinois Public Service Newton Station.

Newton Power Station of Central Illinois Public Service had an undesirable cyclone effect in one of their flue gas stacks. In order to correct the problem, a "V" shaped van assembly was designed to act as a vortex baffle in the base of the stack.

This plant burns high sulfur coal. Therefore, the corrosiveness of the flue gas was a concern in selecting the alloy to be used. To resolve this problem Louis Kent, Maintenance Superintendent, conducted coupon tests lasting several months. AL-6XN was chosen because it demonstrated excellent resistance to pitting and crevice attack. These are well documented modes of failure in flue gas condensate environments.

The unit stands 34-1/2 feet high and spreads from a 2 foot wide base to 15 feet at the top. The baffle vanes are curved surfaces approximately 3 feet wide by 10 feet long and are plasma cut by Rolled Alloys prior to shipment. The entire assembly was fabricated on the generator floor from ¼ inch AL-6XN plate. All welding was accomplished using the recommended alloys 625 welding consumables.

The final assembly was moved from the generator floor to the stack base and then dropped in from the top with a 400 foot boom crane.

AL-6XN continues to grow as an alloy of choice for tough environment corrosion control problems in the power industry.

Midwest Region:

125 West Sterns Road
Temperance, Michigan 48182
800-521-0332
734-847-0561
Fax: 734-847-6917
Email: sales@rolledalloys.com

Central Region:

9944 Princeton-Glendale Road
Cincinnati, Ohio 45246
800-521-0332
Email: sales@rolledalloys.com

Southern Region:

9818 E. Hardy Road
Houston, Texas 77093
800-521-0332
Email: sales@rolledalloys.com

Western Region:

Harvey Titanium Ltd.,
Division of Rolled Alloys
291 Coral Circle Drive
El Segundo, California 90245
800-321-0909
310-343-6000
Fax: 310-606-9322
Email: harveytisales@rolledalloys.com

Canada:

Rolled Alloys-Canada, Inc.
151 Brunel Road – Unit 23
Mississauga Ontario
Canada L4Z 2H6
800-521-0332
905-501-7552
Fax: 905-5041-7553
Email: racsales@rolledalloys.com

England:

Walker Industrial Park
Guide, Blackburn
BB1 2QE, United Kingdom
44 (0) 1254 582 999
Fax: 905-501-7553
Email: Blackburn@rolledalloys.co.uk

Netherlands:

Rolled Alloys
Voorerf 16
4824 GN Breda, The Netherlands
31 (0) 76-548 44 44
Fax: 31 (0) 76-542-98 88
Email: sales@rolledalloys.nl

International:

Rolled Alloys International, Ltd.
14, The Oaks, Clews Road
Redditch, Worcestershire
B98 7ST. United Kingdom
44 (0) 1527-401101
Fax: 44 (0) 1527-401013
Email: hbuijsters@rolledalloys.co.uk

Singapore:

Rolled Alloys International, Ltd.
10 Anson Road #24-06
International Plaza, Singapore
07903
65-62272725
Fax: 65-62272735
Email: railtd@pacific.net.sg

China:

Rolled Alloys, Ltd.
Room 12B03, 12B Floor
Suncome Liauw's Plaza
738 Shangcheng Road
Pudong New Area
Shanghai, China 200120
86 (0) 21-5835-5329
Fax: 86 (0) 21-5835-5339

**E-mail: sales@rolledalloys.com
<http://www.RolledAlloys.com>**