

**CERTIFIED ENVIRONMENTAL TECHNOLOGY
TECHNOLOGY TRANSFER ADVISORY**

**Envirotemp®FR3™ Vegetable Oil-Based Insulating Dielectric
Fluid**

Issued To:

Cooper Power Systems, Inc.
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Certification No:

03-01-040

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February 8, 2006

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Technology Description:

Cooper Power Systems (Cooper) has developed a vegetable oil-based dielectric fluid comprised of >98.5% vegetable oil and <1.5% additives. Envirotemp®FR3™ fluid is used in liquid-filled electrical apparatus such as transformers to act as an electrical insulating medium. Envirotemp®FR3™ fluid is currently used in pole, padmount, network, and small and medium power transformers with a voltage rating of 35 kV and a maximum rating of 10 MVA. Cooper is preparing to refill two 69 kV transformers, one 35 MVA, and one 50 MVA, for a midwestern facility. Other electrical apparatus include loadbreak switches, cables, electromagnets, klystron modulators, power supplies, and bushings. To date, approximately 475 transformers currently use Envirotemp®FR3™ fluid.