Certificate Number 20161230-E317867

Report Reference E317867-20140717

Issue Date 2016-DECEMBER-30

Issued to: XP POWER L L C

15641 RED HILL AVE, SUITE 100,

TUSTIN, CA 92780 USA

This is to certify that representative samples of

COMPONENT - POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL

**BUSINESS EQUIPMENT** 

See addendum page for models

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 60950-1 and CSA C22.2 No. 60950-1-07, Information

Technology Equipment - Safety - Part 1: General

Requirements

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: May be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

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Bruce Mahrenholz, Director North American Certification Program

UL LLC



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JTE0324S3V3, JTE0324S05, JTE0324S12, JTE0324S15, JTE0324S24, JTE0324D03, JTE0324D05, JTE0324D12, JTE0324D15, JTE0324D24, JTE0348S3V3, JTE0348S05, JTE0348S12, JTE0348S15, JTE0348S24, JTE0348D03, JTE0348D05, JTE0348D12, JTE0348D15, JTE0348D24, JTE0324S3V3-H, JTE0324S05-H, JTE0324S12-H, JTE0324S15-H, JTE0324S24-H, JTE0324D03-H. JTE0324D05-H. JTE0324D12-H. JTE0324D15-H. JTE0324D24-H. JTE0348S3V3-H, JTE0348S05-H, JTE0348S12-H, JTE0348S15-H, JTE0348S24-H, JTE0348D03-H. JTE0348D05-H. JTE0348D12-H. JTE0348D15-H. JTE0348D24-H. JTE0624S15, JTE0624S24, JTE0624D03, JTE0624D05, JTE0624D12, JTE0624D15, JTE0624D24. JTE0648S3V3. JTE0648S05. JTE0648S12. JTE0648S15. JTE0648S24, JTE0648D03, JTE0648D05, JTE0648D12, JTE0648D15, JTE0648D24, JTE0624S3V3-H, JTE0624S05-H, JTE0624S12-H, JTE0624S15-H, JTE0624S24-H, JTE0624D03-H, JTE0624D05-H, JTE0624D12-H, JTE0624D15-H, JTE0624D24-H, JTE0648S3V3-H, JTE0648S05-H, JTE0648S12-H, JTE0648S15-H, JTE0648S24-H, JTE0648D03-H. JTE0648D05-H. JTE0648D12-H. JTE0648D15-H. JTE0648D24-H. JCE0324D03. JCE0324D05. JCE0324D12. JCE0324D15. JCE0324D24. JCE0348S3V3, JCE0348S05, JCE0348S12, JCE0348S15, JCE0348S24, JCE0348D03, JCE0348D05, JCE0348D12, JCE0348D15, JCE0348D24, JCE0312S3V3-H, JCE0312S05-H, JCE0312S12-H, JCE0312S15-H, JCE0312S24-H, JCE0312D03-H. JCE0312D05-H. JCE0312D12-H. JCE0312D15-H. JCE0312D24-H. JCE0324S3V3-H, JCE0324S05-H, JCE0324S12-H, JCE0324S15-H, JCE0324S24-H, JCE0324D03-H, JCE0324D05-H, JCE0324D12-H, JCE0324D15-H, JCE0324D24-H, JCE0348S3V3-H, JCE0348S05-H, JCE0348S12-H, JCE0348S15-H, JCE0348S24-H, JCE0348D03-H. JCE0348D05-H. JCE0348D12-H. JCE0348D15-H. JCE0348D24-H. JCE0612S3V3, JCE0612S05, JCE0612S12, JCE0612S15, JCE0612S24, JCE0612D03, JCE0612D05, JCE0612D12, JCE0612D15, JCE0612D24, JCE0624S3V3, JCE0624S05, JCE0624S12, JCE0624S15, JCE0624S24, JCE0624D03, JCE0624D05, JCE0624D12, JCE0624D15, JCE0624D24, JCE0648S3V3, JCE0648S05, JCE0648S12, JCE0648S15, JCE0648S24, JCE0648D03, JCE0648D05, JCE0648D12, JCE0648D15, JCE0648D24, JCE0612S3V3-H, JCE0612S05-H, JCE0612S12-H, JCE0612S15-H, JCE0612S24-H, JCE0612D03-H, JCE0612D05-H, JCE0612D12-H, JCE0612D15-H, JCE0612D24-H,



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JCE0624S3V3-H, JCE0624S05-H, JCE0624S12-H, JCE0624S15-H, JCE0624S24-H, JCE0624D03-H, JCE0624D05-H, JCE0624D12-H, JCE0624D15-H, JCE0624D24-H, JCE0648S3V3-H, JCE0648S05-H, JCE0648S12-H, JCE0648S15-H, JCE0648S24-H, JCE0648D03-H. JCE0648D05-H. JCE0648D12-H. JCE0648D15-H. JCE0648D24-H. ITW0505SA, ITW0512SA, ITW0515SA, ITW0524SA, ITW0512S, ITW0515S, ITW1205SA, ITW1212SA, ITW1215SA, ITW1224SA, ITW1212S, ITW1215S, ITW2405SA, ITW2412SA, ITW2415SA, ITW2424SA, ITW2412S, ITW2415S, ITW4805SA, ITW4812SA, ITW4815SA, ITW4824SA, ITW4812S, ITW4815S, IB0303S, IB0305S, IB0307S, IB0309S, IB0312S, IB0315S, IB0318S, IB0324S, IB0503S, IB0505S, IB0507S, IB0509S, IB0512S, IB0515S, IB0518S, IB0524S, IB1203S, IB1205S, IB1207S, IB1209S, IB1212S, IB1215S, IB1218S, IB1224S, IB1503S, IB1505S, IB1507S, IB1509S, IB1512S, IB1515S, IB1518S, IB1524S, IB2403S, IB2405S, IB2407S, IB2409S, IB2412S, IB2415S, IB2418S, IB2424S, IB4803S, IB4805S, IB4807S, IB4809S, IB4812S, IB4815S, IB4818S, IB4824S, IV0303SA, IV0305SA, IV0307SA, IV0309SA, IV0312SA, IV0315SA, IV0318SA, IV0324SA, IV0503SA, IV0505SA, IV0507SA, IV0509SA, IV0512SA, IV0515SA, IV0518SA, IV0524SA, IV1203SA, IV1205SA, IV1207SA, IV1209SA, IV1212SA, IV1215SA, IV1218SA, IV1224SA, IV1503SA, IV1505SA, IV1507SA, IV1509SA, IV1512SA, IV1515SA, IV1518SA, IV1524SA, IV2403SA, IV2405SA, IV2407SA, IV2409SA, IV2412SA, IV2415SA, IV2418SA, IV2424SA, IV4803SA, IV4805SA, IV4807SA, IV4809SA, IV4812SA, IV4815SA, IV4818SA, IV4824SA, IV0303SA-H4, IV0305SA-H4, IV0307SA-H4, IV0309SA-H4, IV0312SA-H4, IV0315SA-H4, IV0318SA-H4, IV0324SA-H4, IV0503SA-H4, IV0505SA-H4, IV0507SA-H4, IV0509SA-H4, IV0512SA-H4, IV0515SA-H4, IV0518SA-H4, IV0524SA-H4, IV1203SA-H4, IV1205SA-H4, IV1207SA-H4, IV1209SA-H4, IV1212SA-H4, IV1215SA-H4, IV1218SA-H4, IV1224SA-H4, IV1503SA-H4, IV1505SA-H4, IV1507SA-H4, IV1509SA-H4, IV1512SA-H4, IV1515SA-H4, IV1518SA-H4, IV1524SA-H4, IV2403SA-H4, IV2405SA-H4, IV2407SA-H4, IV2409SA-H4, IV2412SA-H4. IV2415SA-H4. IV2418SA-H4. IV2424SA-H4. IV4803SA-H4. IV4805SA-H4, IV4807SA-H4, IV4809SA-H4, IV4812SA-H4, IV4815SA-H4, IV4818SA-H4. IV4824SA-H4. IV0303SA-H5. IV0305SA-H5. IV0307SA-H5. IV0309SA-H5, IV0312SA-H5, IV0315SA-H5, IV0318SA-H5, IV0324SA-H5, IV0503SA-H5, IV0505SA-H5, IV0507SA-H5, IV0509SA-H5, IV0512SA-H5, IV0515SA-H5, IV0518SA-H5, IV0524SA-H5, IV1203SA-H5, IV1205SA-H5,



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IV1207SA-H5, IV1209SA-H5, IV1212SA-H5, IV1215SA-H5, IV1218SA-H5,
IV1224SA-H5, IV1503SA-H5, IV1505SA-H5, IV1507SA-H5, IV1509SA-H5,
IV1512SA-H5, IV1515SA-H5, IV1518SA-H5, IV1524SA-H5, IV2403SA-H5,
IV2405SA-H5. IV2407SA-H5. IV2409SA-H5. IV2412SA-H5. IV2415SA-H5.
IV2418SA-H5, IV2424SA-H5, IV4803SA-H5, IV4805SA-H5, IV4807SA-H5,
IV4809SA-H5, IV4812SA-H5, IV4815SA-H5, IV4818SA-H5, IV4824SA-H5,
IV0303SA-H6, IV0305SA-H6, IV0307SA-H6, IV0309SA-H6, IV0312SA-H6,
IV0315SA-H6, IV0318SA-H6, IV0324SA-H6, IV0503SA-H6, IV0505SA-H6,
IV0507SA-H6, IV0509SA-H6, IV0512SA-H6, IV0515SA-H6, IV0518SA-H6,
IV0524SA-H6, IV1203SA-H6, IV1205SA-H6, IV1207SA-H6, IV1209SA-H6,
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IV4803SA-H6, IV4805SA-H6, IV4807SA-H6, IV4809SA-H6, IV4812SA-H6,
IV4815SA-H6, IV4818SA-H6, IV4824SA-H6, IA0303S, IA0305S, IA0307S, IA0309S,
IA0312S, IA0315S, IA0318S, IA0324S, IA0503S, IA0505S, IA0507S, IA0509S,
IA0512S, IA0515S, IA0518S, IA0524S, IA1203S, IA1205S, IA1207S, IA1209S,
IA1212S. IA1215S. IA1218S. IA1224S. IA1503S. IA1505S. IA1507S. IA1509S.
IA1512S, IA1515S, IA1518S, IA1524S, IA2403S, IA2405S, IA2407S, IA2409S,
IA2412S. IA2415S. IA2418S. IA2424S. IA4803S. IA4805S. IA4807S. IA4809S.
IA4812S, IA4815S, IA4818S, IA4824S, IV0303S, IV0305S, IV0307S, IV0309S,
IV0312S, IV0315S, IV0318S, IV0324S, IV0503S, IV0505S, IV0507S, IV0509S,
IV0512S, IV0515S, IV0518S, IV0524S, IV1203S, IV1205S, IV1207S, IV1209S,
IV1212S, IV1215S, IV1218S, IV1224S, IV1503S, IV1505S, IV1507S, IV1509S,
IV1512S, IV1515S, IV1518S, IV1524S, IV2403S, IV2405S, IV2407S, IV2409S,
IV2412S. IV2415S. IV2418S. IV2424S. IV4803S. IV4805S. IV4807S. IV4809S.
IV4812S, IV4815S, IV4818S, IV4824S, IV0303S-H4, IV0305S-H4, IV0307S-H4,
IV0309S-H4, IV0312S-H4, IV0315S-H4, IV0318S-H4, IV0324S-H4, IV0503S-H4,
IV0505S-H4, IV0507S-H4, IV0509S-H4, IV0512S-H4, IV0515S-H4, IV0518S-H4,
IV0524S-H4. IV1203S-H4. IV1205S-H4. IV1207S-H4. IV1209S-H4. IV1212S-H4.
IV1215S-H4, IV1218S-H4, IV1224S-H4, IV1503S-H4, IV1505S-H4, IV1507S-H4,
IV1509S-H4, IV1512S-H4, IV1515S-H4, IV1518S-H4, IV1524S-H4, IV2403S-H4,
IV2405S-H4, IV2407S-H4, IV2409S-H4, IV2412S-H4, IV2415S-H4, IV2418S-H4,
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IV2424S-H4, IV4803S-H4, IV4805S-H4, IV4807S-H4, IV4809S-H4, IV4812S-H4, IV4815S-H4, IV4818S-H4, IV4824S-H4, IV0303S-H5, IV0305S-H5, IV0307S-H5, IV0309S-H5, IV0312S-H5, IV0315S-H5, IV0318S-H5, IV0324S-H5, IV0503S-H5, IV0505S-H5. IV0507S-H5. IV0509S-H5. IV0512S-H5. IV0515S-H5. IV0518S-H5. IV0524S-H5, IV1203S-H5, IV1205S-H5, IV1207S-H5, IV1209S-H5, IV1212S-H5, IV1215S-H5, IV1218S-H5, IV1224S-H5, IV1503S-H5, IV1505S-H5, IV1507S-H5, IV1509S-H5, IV1512S-H5, IV1515S-H5, IV1518S-H5, IV1524S-H5, IV2403S-H5, IV2405S-H5, IV2407S-H5, IV2409S-H5, IV2412S-H5, IV2415S-H5, IV2418S-H5, IV2424S-H5, IV4803S-H5, IV4805S-H5, IV4807S-H5, IV4809S-H5, IV4812S-H5, IV4815S-H5, IV4818S-H5, IV4824S-H5, IV0303S-H6, IV0305S-H6, IV0307S-H6, IV0309S-H6, IV0312S-H6, IV0315S-H6, IV0318S-H6, IV0324S-H6, IV0503S-H6, IV0505S-H6, IV0507S-H6, IV0509S-H6, IV0512S-H6, IV0515S-H6, IV0518S-H6, IV0524S-H6, IV1203S-H6, IV1205S-H6, IV1207S-H6, IV1209S-H6, IV1212S-H6, IV1215S-H6, IV1218S-H6, IV1224S-H6, IV1503S-H6, IV1505S-H6, IV1507S-H6, IV1509S-H6, IV1512S-H6, IV1515S-H6, IV1518S-H6, IV1524S-H6, IV2403S-H6, IV2405S-H6, IV2407S-H6, IV2409S-H6, IV2412S-H6, IV2415S-H6, IV2418S-H6, IV2424S-H6, IV4803S-H6, IV4805S-H6, IV4807S-H6, IV4809S-H6, IV4812S-H6, IV4815S-H6, IV4818S-H6, IV4824S-H6, IB0303D, IB0305D, IB0307D, IB0309D, IB0312D, IB0315D, IB0318D, IB0324D, IB0503D, IB0505D, IB0507D, IB0509D, IB0512D, IB0515D, IB0518D, IB0524D, IB1203D, IB1205D, IB1207D, IB1209D, IB1212D. IB1215D. IB1218D. IB1224D. IB1503D. IB1505D. IB1507D. IB1509D. IB1512D, IB1515D, IB1518D, IB1524D, IB2403D, IB2405D, IB2407D, IB2409D, IB2412D, IB2415D, IB2418D, IB2424D, IB4803D, IB4805D, IB4807D, IB4809D, IB4812D, IB4815D, IB4818D, IB4824D, IV0303DA, IV0305DA, IV0307DA, IV0309DA, IV0312DA, IV0315DA, IV0318DA, IV0324DA, IV0503DA, IV0505DA, IV0507DA, IV0509DA, IV0512DA, IV0515DA, IV0518DA, IV0524DA, IV1203DA, IV1205DA, IV1207DA, IV1209DA, IV1212DA, IV1215DA, IV1218DA, IV1224DA, IV1503DA, IV1505DA, IV1507DA, IV1509DA, IV1512DA, IV1515DA, IV1518DA, IV1524DA, IV2403DA, IV2405DA, IV2407DA, IV2409DA, IV2412DA, IV2415DA, IV2418DA, IV2424DA, IV4803DA, IV4805DA, IV4807DA, IV4809DA, IV4812DA, IV4815DA, IV4818DA. IV4824DA. IV0303DA-H4. IV0305DA-H4. IV0307DA-H4. IV0309DA-H4. IV0312DA-H4, IV0315DA-H4, IV0318DA-H4, IV0324DA-H4, IV0503DA-H4, IV0505DA-H4, IV0507DA-H4, IV0509DA-H4, IV0512DA-H4, IV0515DA-H4, IV0518DA-H4, IV0524DA-H4, IV1203DA-H4, IV1205DA-H4, IV1207DA-H4,



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IV1209DA-H4, IV1212DA-H4, IV1215DA-H4, IV1218DA-H4, IV1224DA-H4,
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IV4809DA-H6, IV4812DA-H6, IV4815DA-H6, IV4818DA-H6, IV4824DA-H6, IA0303D,
IA0305D, IA0307D, IA0309D, IA0312D, IA0315D, IA0318D, IA0324D, IA0503D,
IA0505D, IA0507D, IA0509D, IA0512D, IA0515D, IA0518D, IA0524D, IA1203D,
IA1205D, IA1207D, IA1209D, IA1212D, IA1215D, IA1218D, IA1224D, IA1503D,
IA1505D, IA1507D, IA1509D, IA1512D, IA1515D, IA1518D, IA1524D, IA2403D,
IA2405D, IA2407D, IA2409D, IA2412D, IA2415D, IA2418D, IA2424D, IA4803D,
IA4805D, IA4807D, IA4809D, IA4812D, IA4815D, IA4818D, IA4824D, IV0303D,
IV0305D, IV0307D, IV0309D, IV0312D, IV0315D, IV0318D, IV0324D, IV0503D,
IV0505D, IV0507D, IV0509D, IV0512D, IV0515D, IV0518D, IV0524D, IV1203D,
IV1205D, IV1207D, IV1209D, IV1212D, IV1215D, IV1218D, IV1224D, IV1503D,
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IV1505D, IV1507D, IV1509D, IV1512D, IV1515D, IV1518D, IV1524D, IV2403D, IV2405D, IV2407D, IV2409D, IV2412D, IV2415D, IV2418D, IV2424D, IV4803D, IV4805D, IV4807D, IV4809D, IV4812D, IV4815D, IV4818D, IV4824D, IV0303D-H4, IV0305D-H4. IV0307D-H4. IV0309D-H4. IV0312D-H4. IV0315D-H4. IV0318D-H4. IV0324D-H4, IV0503D-H4, IV0505D-H4, IV0507D-H4, IV0509D-H4, IV0512D-H4, IV0515D-H4, IV0518D-H4, IV0524D-H4, IV1203D-H4, IV1205D-H4, IV1207D-H4, IV1209D-H4, IV1212D-H4, IV1215D-H4, IV1218D-H4, IV1224D-H4, IV1503D-H4, IV1505D-H4, IV1507D-H4, IV1509D-H4, IV1512D-H4, IV1515D-H4, IV1518D-H4, IV1524D-H4, IV2403D-H4, IV2405D-H4, IV2407D-H4, IV2409D-H4, IV2412D-H4, IV2415D-H4, IV2418D-H4, IV2424D-H4, IV4803D-H4, IV4805D-H4, IV4807D-H4, IV4809D-H4, IV4812D-H4, IV4815D-H4, IV4818D-H4, IV4824D-H4, IV0303D-H5, IV0305D-H5, IV0307D-H5, IV0309D-H5, IV0312D-H5, IV0315D-H5, IV0318D-H5, IV0324D-H5, IV0503D-H5, IV0505D-H5, IV0507D-H5, IV0509D-H5, IV0512D-H5, IV0515D-H5. IV0518D-H5. IV0524D-H5. IV1203D-H5. IV1205D-H5. IV1207D-H5. IV1209D-H5, IV1212D-H5, IV1215D-H5, IV1218D-H5, IV1224D-H5, IV1503D-H5, IV1505D-H5, IV1507D-H5, IV1509D-H5, IV1512D-H5, IV1515D-H5, IV1518D-H5, IV1524D-H5, IV2403D-H5, IV2405D-H5, IV2407D-H5, IV2409D-H5, IV2412D-H5, IV2415D-H5, IV2418D-H5, IV2424D-H5, IV4803D-H5, IV4805D-H5, IV4807D-H5, IV4809D-H5. IV4812D-H5. IV4815D-H5. IV4818D-H5. IV4824D-H5. IV0303D-H6. IV0305D-H6, IV0307D-H6, IV0309D-H6, IV0312D-H6, IV0315D-H6, IV0318D-H6, IV0324D-H6. IV0503D-H6. IV0505D-H6. IV0507D-H6. IV0509D-H6. IV0512D-H6. IV0515D-H6, IV0518D-H6, IV0524D-H6, IV1203D-H6, IV1205D-H6, IV1207D-H6, IV1209D-H6, IV1212D-H6, IV1215D-H6, IV1218D-H6, IV1224D-H6, IV1503D-H6, IV1505D-H6, IV1507D-H6, IV1509D-H6, IV1512D-H6, IV1515D-H6, IV1518D-H6, IV1524D-H6, IV2403D-H6, IV2405D-H6, IV2407D-H6, IV2409D-H6, IV2412D-H6, IV2415D-H6, IV2418D-H6, IV2424D-H6, IV4803D-H6, IV4805D-H6, IV4807D-H6, IV4809D-H6. IV4812D-H6. IV4815D-H6. IV4818D-H6. IV4824D-H6. IT2403SA. IT2405SA, IT2412SA, IT2415SA, IT4803SA, IT4805SA, IT4812SA, IT4815SA, IT2405S, IT2412S, IT2415S, IT4805S, IT4812S, IT4815S, IM2403SA, IM2405SA, IM2412SA, IM2415SA, IM4803SA, IM4805SA, IM4812SA, IM4815SA, IM2405S, IM2412S, IM2415S, IM4805S, IM4812S, IM4815S, JCH1012S3V3, JCH1012S05, JCH1012S7V2, JCH1012S09, JCH1012S12, JCH1012S15, JCH1012S18, JCH1012S24, JCH1012D03, JCH1012D05, JCH1012D07, JCH1012D09, JCH1012D12, JCH1012D15, JCH1012D18, JCH1012D24, JCH1024S3V3,



Bruce Mahrenholz, Director North American Certification Program

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JCH1024S05, JCH1024S7V2, JCH1024S09, JCH1024S12, JCH1024S15, JCH1024S18, JCH1024S24, JCH1024D03, JCH1024D05, JCH1024D07, JCH1024D09, JCH1024D12, JCH1024D15, JCH1024D18, JCH1024D24, JCH1048S3V3, JCH1048S05, JCH1048S7V2, JCH1048S09, JCH1048S12, JCH1048S15, JCH1048S18, JCH1048S24, JCH1048D03, JCH1048D05, JCH1048D07, JCH1048D09, JCH1048D12, JCH1048D15, JCH1048D18, JCH1048D24, JTH1524S3V3, JTH1524S05, JTH1524S7V2, JTH1524S09, JTH1524S12, JTH1524S15, JTH1524D05, JTH1524D07, JTH1524D09, JTH1524D12, JTH1524D15, JTH1548S3V3, JTH1548S05, JTH1548S7V2, JTH1548S09, JTH1548D12, JTH1548S15, JTH1524S3V3-R, JTH1524S05-R, JTH1524S05-R, JTH1524S07-R, JTH1524S09-R, JTH1524S12-R, JTH1524S15-R, JTH1524D05-R, JTH1524D07-R, JTH1524D09-R, JTH1548S09-R, JTH1548S12-R, JTH1548S15-R, JTH1548S05-R, JTH1548S07-R, JTH1548D07-R, JTH1548D07-R, JTH1548D15-R, JTH1548D05-R, JTH1548D07-R, JTH1548D07-R, JTH1548D15-R, JTH1548D05-R, JTH1548D07-R, JTH1548D07-R, JTH1548D15-R, JTH1548D05-R, JTH1548D07-R, JTH1548D15-R, JTH1548D05-R, JTH1548D07-R, JTH1548D15-R, JTH1548D15-R, JTH1548D05-R, JTH1548D07-R, JTH1548D15-R, JTH1548D15-R, JTH1548D07-R, JTH1548D07-R, JTH1548D15-R, JTH1548D15-R, JTH1548D05-R, JTH1548D07-R, JTH1548D15-R, JTH1548D15-R, JTH1548D05-R, JTH1548D05-R, JTH1548D15-R, JTH1548D15-R.



Bruce Mahrenholz, Director North American Certification Program



