PARTS LIST AND TUNE-UP PROCEEDURE

NV8300E/V OFDM (MEDIAFLO)

NV8301E/V 0.3-KILOWATT TRANSMITTER
NV8302E/V 0.6-KILOWATT TRANSMITTER
NV8303E/V 0.9-KILOWATT TRANSMITTER
NV8304E/V 1.2-KILOWATT TRANSMITTER
NV8305E/V 1.5-KILOWATT TRANSMITTER
NV8306E/V 1.8-KILOWATT TRANSMITTER

Parts List for NV8300 series (Rohde & Schwarz, unless otherwise noted)

	Quantity	Part Number:	Description:
a)	1	2096.2002.02	KG830M1 Cabinet Rack
b)	1	2096.3009.xx	Mid-range Power Distribution System
c)	1	2095.8007.02	Transmitter Control Unit, NETCCU® 800
d)	1 - 2	2095.1502.71	SV800 ATSC TV Exciter
			Transmitter type:
d1)			NV83xxE includes single exciter
d2)			NV83xxV includes two exciters
e)	1	2095.3257.02	Exciter Switcher (only used in V version with dual exciters)
f)	1	1081 .0254.00	Auxiliary Power Supply
g)	1	2096.4505.02	Rack Controller
h)	2	2077.3936.00	Pressure Capsule
j)	2	2010.0006.00	Temperature Sensor1
k)	2	2096.2131.02	Fan Set
l)	1-6	VH8300V1	UHF Power Amplifier, 300-watt output for OFDM
m)	1	2096.6508.02	Harmonics Filter
n)	1		Final Amplifier Input Splitter/Output Combiner Unit
n1)			(not required for NV8301)
n2)		2096.4305.02	BVH832H1 two-way coupler , used in NV8302
n3)		2096.4157.02	BVH823H1 three-way coupler , used in NV8303
n4)		2096.4005.02	BVH824H1 four-way coupler , used in NV8304
n5)		2096.4705.02	BVH825H1 five-way coupler , used in NV8305
n6)		2096.3750.02	BVH826H1 six-way coupler , used in NV8306
p)	1	2096.6308.xx	GD 800 Directional coupler with lightning protection
r1)	1	R0090124520	Channel "Mask" Filter (supplied by Dielectric and tested with unit for this Application)
r2)	or	11000003149	Alternate Channel "Mask" Filter (supplied by Dielectric)
r3)	or		Alternate Channel "Mask" Filter (supplied by ERI)
r4)	or	13011	Alternate Channel "Mask" Filter (supplied by Myat)

Tune-Up Information:

The NV8300 family of transmitters is broadband in design and therefore requires no tuning as such. Each individual transmitter is put through extensive testing at the factory on the customer's designated operating frequency to insure proper operation. The transmitter commissioning process calls for the verification of the factory set-ups. Following is an outline of the requirements:

COMMISSIONING OF THE TRANSMITTER

1) Requirements For Putting Into Operation
   a) Verify Rack Wiring Interconnect
   b) Checks Response Settings (programmable circuit protectors) of Power Distribution
   c) Verify Transmitter Rack/Cabinet Internal Wiring Connections
   d) Rack Controllers Configuration

2) Switching On The Transmitter
   a) Exciter Turn On
   b) Settings In The Exciter Menu Of The CCU800 (Synthesizer, Modulator/Precorrector, Encoder)
   c) Settings In The Amplifier Submenu
   d) Settings In the Cooling System Menu

3) Checking The Exciter Output Power

4) Putting The Cooling System Into Operation
   a) Verify Blowers are Operational

5) Putting The Amplifiers Into Operation
   a) Switching On The Amplifiers
   b) Amplifier Adjustment

6) Setting RF Displays And Thresholds
   a) Setting Forward And Reflected Power Monitoring
   b) Setting The Forward Power Threshold
   c) Verify Band Occupancy (Mask Filter Response)

7) Emergency Operation, Verification and Adjustment

8) Remote Control Function Verification

A complete step-by-step discussion of the start-up procedure and adjustments needed to put the transmitter into operation, as outlined above, can be found in the appropriate sections of Exhibits: SV800 Exciter Instrument Manual, NV8306 System Manual, and NetCCU 800 Instrument Manual that accompanies this filing.