

416

STATE OF NEW JERSEY  
OFFICE OF THE  
STATE SUPERINTENDENT OF WEIGHTS AND MEASURES

Unit Copy

This certifies that 25.3 m.p.h. Tuning Fork Serial Number FA167008  
has been compared with standards of the State of New Jersey in possession of the State Superintendent of Weights and Measures. The above tuning fork when used with Radar traffic units operating at 34.7 GHz  
KA - Band will result in the stated m.p.h. value.



Agency certified for FLORENCE TWP. POLICE DEPT.

*Louis E. Grunberg*  
State Superintendent

Burlington County

Date 10/2/2009

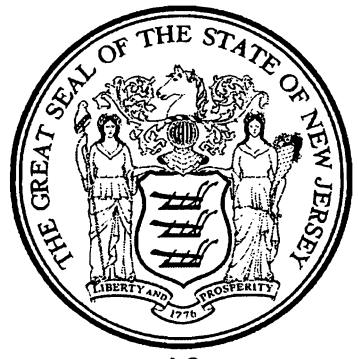
LS

416

STATE OF NEW JERSEY  
OFFICE OF THE  
STATE SUPERINTENDENT OF WEIGHTS AND MEASURES

Unit Copy

This certifies that 40.3 m.p.h. Tuning Fork Serial Number FB268323  
has been compared with standards of the State of New Jersey in possession of the State Superintendent of Weights and Measures. The above tuning fork when used with Radar traffic units operating at 34.7 GHz  
KA - Band will result in the stated m.p.h. value.



Agency certified for FLORENCE TWP. POLICE DEPT.

*Louis E. Grunberg*  
State Superintendent

Burlington County

Date 10/2/2009

LS

# TUNING FORK CERTIFICATE

This Tuning Fork has been tested and found to oscillate at  $2613 \pm 5$  Hertz at 70°F resulting in a calibration signal of 25 mph (40 kph) when used with a Ka Band Radar operating at 34.7 GHz.

Operation from -22° F to +140° F will result in an error of less than .5 mph (.8 kph)

Technician Todd L. Gardner Date JAN 14 2008 Serial # 167008  
Todd L. Gardner

Applied Concepts, Inc.



Plano, Texas 75074

# TUNING FORK CERTIFICATE

This Tuning Fork has been tested and found to oscillate at  $4165.5 \pm 5$  Hertz at 70°F resulting in a calibration signal of 40 mph (64 kph) when used with a Ka Band Radar operating at 34.7 GHz.

Operation from -22° F to +140° F will result in an error of less than .5 mph (.8 kph)

Technician Todd L. Gardner Date JAN 14 2008 Serial # 268323  
Todd L. Gardner

Applied Concepts, Inc.



Plano, Texas 75074

STATE OF NEW JERSEY  
OFFICE OF THE  
STATE SUPERINTENDENT OF WEIGHTS AND MEASURES

Unit Copy

This certifies that 40.3 m.p.h. Tuning Fork Serial Number FB268323  
has been compared with standards of the State of New Jersey in possession of the State Superintendent of Weights and Measures. The above tuning fork when used with Radar traffic units operating at 34.7 GHz  
KA - Band will result in the stated m.p.h. value.



Agency certified for FLORENCE TWP. POLICE DEPT.

*Louis E. Greenleaf*  
State Superintendent

Burlington County

Date 3/10/2008

LS

STATE OF NEW JERSEY  
OFFICE OF THE  
STATE SUPERINTENDENT OF WEIGHTS AND MEASURES

Unit Copy

This certifies that 25.3 m.p.h. Tuning Fork Serial Number FA167008  
has been compared with standards of the State of New Jersey in possession of the State Superintendent of Weights and Measures. The above tuning fork when used with Radar traffic units operating at 34.7 GHz  
KA - Band will result in the stated m.p.h. value.



Agency certified for FLORENCE TWP. POLICE DEPT.

*Louis E. Greenleaf*  
State Superintendent

Burlington County

Date 3/10/2008

LS

## CERTIFICATE OF ACCURACY

I hereby certify this STALKER® Speed Measuring Device.

Computing Unit: S.N. 33472 Frequency      GHz Power Density      mw/cm<sup>2</sup>

Antenna #1: S.N. N/A Frequency      GHz Power Density      mw/cm<sup>2</sup>

Antenna #2: S.N. N/A Frequency      GHz Power Density      mw/cm<sup>2</sup>

Under my supervision, this Speed Measuring Device has been checked for accuracy and correct operation.

This STALKER® Speed Measuring Device is certified accurate within  $\pm 1$  mph ( $\pm 2$  kph) in stationary mode, and/or  $\pm 2$  mph ( $\pm 3$  kph) in moving mode.

The transmitter frequency of this speed measuring radar device has been tested and found to be within the prescribed limits as established by the Federal Communications Commission.

The measured Power Density of this speed measuring device has been tested and found to be below the ANSI Standard of 5.0 mw/cm<sup>2</sup> for this device.

Date FEB 15 2008

Technician (signature) \_\_\_\_\_

*Scott Kleckner*

Technician (name) \_\_\_\_\_

Scott Kleckner

Applied Concepts, Inc. Plano, Texas 75074

006-0147-00 Rev K

## CERTIFICATE OF ACCURACY

I hereby certify this STALKER® Speed Measuring Device.

Computing Unit: S.N. 3340 Frequency      GHz Power Density      mw/cm<sup>2</sup>

Antenna #1: S.N. 7703 Frequency 34.7 GHz Power Density .6 mw/cm<sup>2</sup>

Antenna #2: S.N. 7652 Frequency 34.7 GHz Power Density .7 mw/cm<sup>2</sup>

Under my supervision, this Speed Measuring Device has been checked for accuracy and correct operation.

This STALKER® Speed Measuring Device is certified accurate within  $\pm 1$  mph ( $\pm 2$  kph) in stationary mode, and/or  $\pm 2$  mph ( $\pm 3$  kph) in moving mode.

The transmitter frequency of this speed measuring radar device has been tested and found to be within the prescribed limits as established by the Federal Communications Commission.

The measured Power Density of this speed measuring device has been tested and found to be below the ANSI Standard of 5.0 mw/cm<sup>2</sup> for this device.

Date JAN 11 2008

Technician (signature) \_\_\_\_\_

*Scott Kleckner*

Technician (name) \_\_\_\_\_

Scott Kleckner

Applied Concepts, Inc. Plano, Texas 75074

006-0147-00 Rev K

# Florence Township Police Department Stalker Speed Calibration Sheet

Date: <b>04/20/2009</b>	2. Officer: <b>Sgt. Benjamin Palombi III</b>	3. Radar Unit: <b>34766</b>	4. Time: <b>0130hrs</b>
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- 5. Turn the RADAR on.
- 6. Push self test button, unit should read 888/888/188 Pass X Fail \_\_\_\_\_.
- 7. With Unit in stationary mode struck 25mph fork # 177050 IFO antenna.  
(You should receive a reading of 25 in the target window.)
- 8. Struck 40mph fork # 277765 IFO antenna.  
(You should receive a reading of 40 in the target window.)

09. Vehicle Speed	10. RADAR Speed	11. Difference	12. Direction Vehicle/RADAR	13. Vehicle Driver	14. Vehicle Number	15. Vehicle Registration	16. Vehicle Year	17. Vehicle Type
20 MPH	20 MPH	()	NB / NB	4046	416	MG70851	2006	C/V
30 MPH	30 MPH	()	NB / NB	SAME	SAME	SAME	SAME	SAME
40 MPH	39 MPH	1 (-)	NB / NB	SAME	SAME	SAME	SAME	SAME
50 MPH	50 MPH	()	NB / NB	SAME	SAME	SAME	SAME	SAME
60 MPH	60 MPH	()	SB / NB	SAME	SAME	SAME	SAME	SAME

(+) Speedometer reads faster than actual vehicle speed.    (-) Speedometer reads slower than actual vehicle speed.

18. RADAR Operator **Sgt. Benjamin Palombi III**

19. Vehicle Operator **Ptl. Nathan Tompkins**

*Sgt Ben Palombi III*

*[Signature]*



# Florence Township Police Department Stalker Speed Calibration Sheet

Date: <b>02/08/2009</b>	2. Officer: <b>SGt. Benjamin Palombi III</b>	3. Radar Unit: <b>DS33133</b>	4. Time: <b>1418hrs</b>
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- 5. Turn the RADAR on.
- 6. Push self test button, unit should read 888/888/188 Pass X Fail \_\_\_\_\_.
- 7. With Unit in stationary mode struck 25mph fork # 167059 IFO antenna.  
(You should receive a reading of 25 in the target window.)
- 8. Struck 40mph fork # 266759 IFO antenna.  
(You should receive a reading of 40 in the target window.)

09. Vehicle Speed	10. RADAR Speed	11. Difference	12. Direction Vehicle/RADAR	13. Vehicle Driver	14. Vehicle Number	15. Vehicle Registration	16. Vehicle Year	17. Vehicle Type
20 MPH	20 MPH	()	S / N	4029	416	MG70851	2006	C/V
30 MPH	30 MPH	()	S / N	SAME	SAME	SAME	SAME	SAME
40 MPH	40 MPH	()	S / N	SAME	SAME	SAME	SAME	SAME
50 MPH	50 MPH	()	S / N	SAME	SAME	SAME	SAME	SAME
60 MPH	60 MPH	()	N / N	SAME	SAME	SAME	SAME	SAME

(+ ) Speedometer reads faster than actual vehicle speed.      (-) Speedometer reads slower than actual vehicle speed.

18. RADAR Operator <b>SGt. Benjamin Palombi III</b> 	19. Vehicle Operator: - <b>Ptl. Charles Levach</b> 
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Federal Communications Commission  
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

Licensee: FLORENCE, TOWNSHIP OF

FLORENCE, TOWNSHIP OF  
711 BROAD ST  
FLORENCE NJ 08518

Call Sign KEA396	File Number 0000896829
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	

Grant Date 05-23-2002	Effective Date 05-23-2002	Expiration Date 08-17-2012	Print Date 05-23-2002
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of Operation  
Other VIC FLORENCE NJ

Loc. 2 Address:  
MUNICIPAL BLDG BROAD ST  
City FLORENCE County BURLINGTON State NJ  
Lat (NAD83): 40-7-0.4 N Long (NAD83): 74-48-28.6 W ASR No. Ground Elev: 9.0

Loc. No.	Ant. No.	Frequencies (MHz)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	154.80000	MO	15	0	20K0F3E	35.000				
1	1	155.49000	MO	15	0	20K0F3E	35.000				
2	1	154.80000	FB	1	0	20K0F3E	35.000		23.0		
2	1	155.49000	FB	1	0	20K0F3E	35.000		23.0		

Control Points

Control Address  
PE No. MUNICIPAL BLDG BROAD ST  
City FLORENCE County Telephone Number (609)499-3131  
State NJ

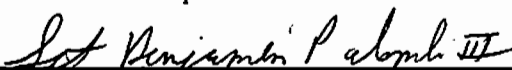
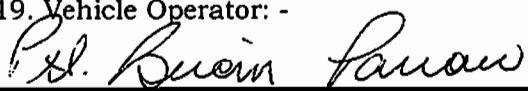
# Florence Township Police Department Stalker Speed Calibration Sheet

Date: <b>02/25/2008</b>	2. Officer: <b>Sgt. Benjamin Palombi III</b>	3. Radar Unit: <b>DS33133</b>	4. Time: <b>0120 hrs</b>
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- 5. Turn the RADAR on.
- 6. Push self test button, unit should read 888/888/188 Pass X Fail \_\_\_\_\_.
- 7. With Unit in stationary mode struck 25mph fork # 167059 IFO antenna.  
(You should receive a reading of 25 in the target window.)
- 8. Struck 40mph fork IFO antenna. # 266759  
(You should receive a reading of 40 in the target window.)

09. Vehicle Speed	10. RADAR Speed	11. Difference	12. Direction Vehicle/RADAR	13. Vehicle Driver	14. Vehicle Number	15. Vehicle Registration	16. Vehicle Year	17. Vehicle Type
20 MPH	20 MPH	()	<b>W / W</b>	4032	416	MG70851	2006	C/V
30 MPH	30 MPH	()	<b>W / W</b>	SAME	SAME	SAME	SAME	SAME
40 MPH	40 MPH	()	<b>W / W</b>	SAME	SAME	SAME	SAME	SAME
50 MPH	50 MPH	()	<b>E / W</b>	SAME	SAME	SAME	SAME	SAME
60 MPH	60 MPH	()	<b>E / W</b>	SAME	SAME	SAME	SAME	SAME

(+) Speedometer reads faster than actual vehicle speed.      (-) Speedometer reads slower than actual vehicle speed.

18. RADAR Operator 	19. Vehicle Operator: - 
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# Florence Township Police Department Speed Calibration Sheet

Date: <b>08/21/2007</b>	2. Officer: <b>Sgt. Alvin Scully</b>	3. Radar Unit: <b>266000630/097000631</b>	4. Time: <b>0525 hrs.</b>
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- 5. Turn the K-55 RADAR on.
- 6. Place The Stationary/Moving switch into the Stationary (STA) position.
- 7. Place the CAL/ICT-L/T switch into the DOWN position.   
(You should receive a reading of 88 in the patrol window and 188 in the target window.)
- 8. Place the CAL/ICT-L/T switch into the UP position.   
(You should receive a reading of 32 in the target window.)
- 9. Then strike the 35 MPH tuning fork (SERIAL #327782) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 35 in the target window.)   
Then strike the 35 MPH tuning fork (SERIAL #826439) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 35 in the target window.)
- 10. Then strike the 80 MPH tuning fork (SERIAL #003070) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 80 in the target window.)   
Then strike the 80 MPH tuning fork (SERIAL #004020) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 80 in the target window.)

11. Vehicle Speed	12. RADAR Speed	13. Difference	14. Direction Vehicle/RADAR	15. Vehicle Driver	16. Vehicle Number	17. Vehicle Registration	18. Vehicle Year	19. Vehicle Type
20 MPH	<b>20 MPH</b>	<b>( 0 )</b>	<b>SB / SB</b>	4028	416	MG70851	2006	Ford CV
30 MPH	<b>32 MPH</b>	<b>(-2)</b>	<b>SB / SB</b>	SAME	SAME	SAME	SAME	SAME
40 MPH	<b>41 MPH</b>	<b>(-1)</b>	<b>SB / SB</b>	SAME	SAME	SAME	SAME	SAME
50 MPH	<b>51 MPH</b>	<b>(-1)</b>	<b>NB / SB</b>	SAME	SAME	SAME	SAME	SAME
60 MPH	<b>61 MPH</b>	<b>(-1)</b>	<b>SB / SB</b>	SAME	SAME	SAME	SAME	SAME

(+ ) Speedometer reads faster than actual vehicle speed.    (- ) Speedometer reads slower than actual vehicle speed.

20. RADAR Operator - <b>Sgt. Alvin Scully</b> <i>Alvin Scully</i>	21. Vehicle Operator: <b>Ptl. Brian Boldizar</b> <i>Brian Boldizar</i>
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## K55 RADAR FRONT PANEL CONTROLS

MPH INDUSTRIES, INC.

ON <input checked="" type="radio"/> OFF		CAL <input checked="" type="radio"/> L/T	MOV <input checked="" type="radio"/> STA		AUTO <input checked="" type="radio"/> MAN		LOCK <input checked="" type="radio"/> RELEASE	1 VOL
TARGET				TARGET		VIOLATION		

K55 DOPPLER RADAR

MPH INDUSTRIES, INC.

ON <input checked="" type="radio"/> OFF		ICT <input checked="" type="radio"/> L/T	MOV <input checked="" type="radio"/> STA		LOCK <input checked="" type="radio"/> RELEASE	LOW <input checked="" type="radio"/> VOLTAGE	1 VOL	SQUELCH 1 DEFEAT
TARGET				TARGET				

K55 DOPPLER RADAR

MPH INDUSTRIES, INC.

ON <input checked="" type="radio"/> OFF		ICT <input checked="" type="radio"/> LT	M O V	PBL <input checked="" type="radio"/> STA		STBY <input checked="" type="radio"/> LK/REL	R U N	RF <input checked="" type="radio"/> STBY	LV <input checked="" type="radio"/>	SQ/UNSQ 1 VOL
PATROL				TARGET						

K55 DOPPLER RADAR

# Florence Township Police Department Speed Calibration Sheet

Date: **04/13/2007**      2. Officer: **Sgt. Alvin Scully**      3. Radar Unit: **1806/2263**      4. Time: **0235**

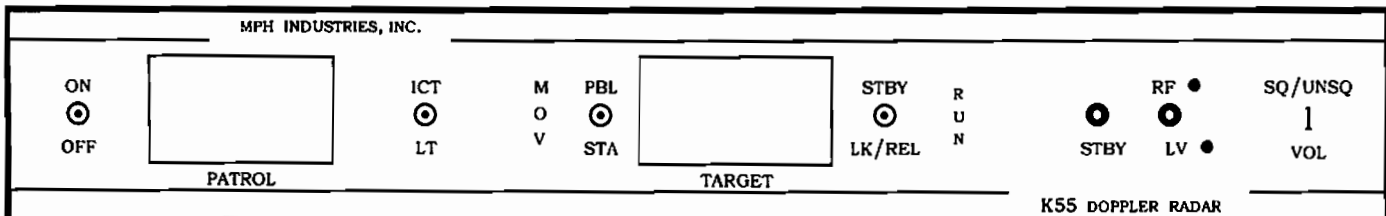
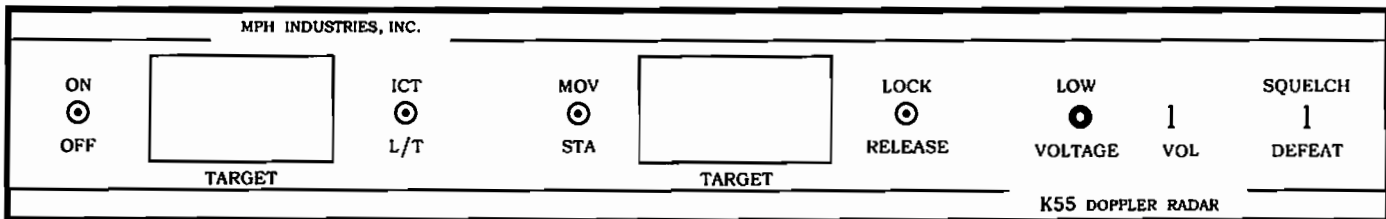
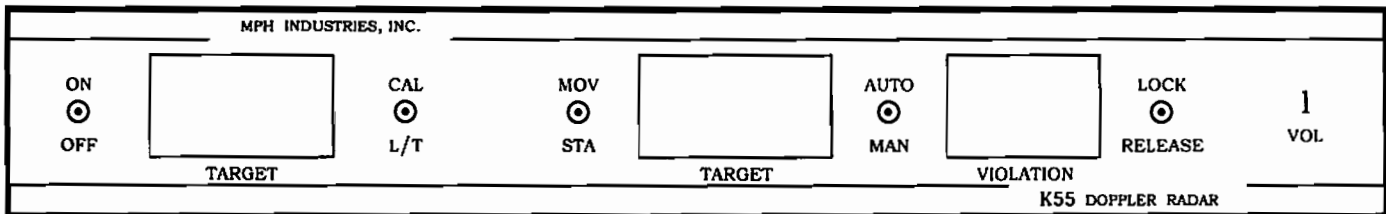
- 5. Turn the K-55 RADAR on.
- 6. Place The Stationary/Moving switch into the Stationary (STA) position.
- 7. Place the CAL/ICT-L/T switch into the DOWN position.   
(You should receive a reading of 88 in the patrol window and 188 in the target window.)
- 8. Place the CAL/ICT-L/T switch into the UP position.   
(You should receive a reading of 32 in the target window.)
- 9. Then strike the 35 MPH tuning fork (SERIAL # 003070) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 35 in the target window.)   
Then strike the 35 MPH tuning fork (SERIAL # 073424) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 35 in the target window.)
- 10. Then strike the 80 MPH tuning fork (SERIAL # 004020) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 80 in the target window.)   
Then strike the 80 MPH tuning fork (SERIAL # 969947) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 80 in the target window.)

11. Vehicle Speed	12. RADAR Speed	13. Difference	14. Direction Vehicle/RADAR	15. Vehicle Driver	16. Vehicle Number	17. Vehicle Registration	18. Vehicle Year	19. Vehicle Type
20 MPH	<b>20 MPH</b>	(0)	NB / SB	4032	416	MG70851	2006	Ford CV
30 MPH	<b>31 MPH</b>	- (1)	NB / SB	SAME	SAME	SAME	SAME	SAME
40 MPH	<b>40 MPH</b>	(0)	NB / SB	SAME	SAME	SAME	SAME	SAME
50 MPH	<b>51 MPH</b>	- (1)	SB / SB	SAME	SAME	SAME	SAME	SAME
60 MPH	<b>60 MPH</b>	(0)	NB / SB	SAME	SAME	SAME	SAME	SAME

(+) Speedometer reads faster than actual vehicle speed.      (-) Speedometer reads slower than actual vehicle speed.

20. RADAR Operator - **Sgt. Alvin Scully**      21. Vehicle Operator: **Ptl. Brian Panaro**  
*Alvin Scully*      *Brian Panaro*

## K55 RADAR FRONT PANEL CONTROLS



# Florence Township Police Department Speed Calibration Sheet

Date: <b>11/15/2006</b>	2. Officer: <b>Ptl. Brian Boldizar</b>	3. Radar Unit: <b>266002943</b>	4. Time: <b>0625 hrs</b>
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- 5. Turn the K-55 RADAR on.
- 6. Place The Stationary/Moving switch into the Stationary (STA) position.
- 7. Place the CAL/ICT-L/T switch into the DOWN position.   
(You should receive a reading of 88 in the patrol window and 188 in the target window.)
- 8. Place the CAL/ICT-L/T switch into the UP position.   
(You should receive a reading of 32 in the target window.)
- 9. Then strike the 35 MPH tuning fork (SERIAL # 269666) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 35 in the target window.)   
Then strike the 35 MPH tuning fork (SERIAL # 271018) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 35 in the target window.)
- 10. Then strike the 80 MPH tuning fork (SERIAL # 003070) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 80 in the target window.)   
Then strike the 80 MPH tuning fork (SERIAL # 004020) against a Non-Metallic surface, and place it in front of the RADAR Antenna. (You should receive a reading of 80 in the target window.)

11. Vehicle Speed	12. RADAR Speed	13. Difference	14. Direction Vehicle/RADAR	15. Vehicle Driver	16. Vehicle Number	17. Vehicle Registration	18. Vehicle Year	19. Vehicle Type
20 MPH	20 MPH	(0)	NB / NB	4016	416	MG70851	2006	Ford C/V
30 MPH	30 MPH	(0)	NB / NB	SAME	SAME	SAME	SAME	SAME
40 MPH	39 MPH	(1)	SB / NB	SAME	SAME	SAME	SAME	SAME
50 MPH	50 MPH	(0)	NB / NB	SAME	SAME	SAME	SAME	SAME
60 MPH	60 MPH	(0)	SB / NB	SAME	SAME	SAME	SAME	SAME

(+ ) Speedometer reads faster than actual vehicle speed.      (-) Speedometer reads slower than actual vehicle speed.

20. RADAR Operator <b>Ptl. Brian Boldizar</b> 	21. Vehicle Operator: - <b>Sgt. Alvin Scully</b> 
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RADIO STATION AUTHORIZATION

Licensee: FLORENCE, TOWNSHIP OF

FLORENCE, TOWNSHIP OF  
711 BROAD ST  
FLORENCE NJ 08518

Call Sign KEA396	File Number 0000896829
Radio Service PW - Public Safety Pool, Conventional	
Regulatory Status PMRS	

Grant Date 05-23-2002	Effective Date 05-23-2002	Expiration Date 08-17-2012	Print Date 05-23-2002
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STATION TECHNICAL SPECIFICATIONS

Fixed Location Address or Mobile Area of Operation

Loc. 1 Area of Operation  
Other VIC: FLORENCE NJ

Loc. 2 Address  
MUNICIPAL BLDG BROAD ST  
City FLORENCE County BURLINGTON State NJ  
Lat (NAD83): 40-7-01.4 N Long (NAD83): 74-48-28.6 W ASR No.: Ground Elev: 9.0

Antennas											
Loc. No.	Ant. No.	Frequencies (MHZ)	Sta. Cls.	No. Units	No. Pagers	Emission Designator	Output Power (watts)	ERP (watts)	Ant. Ht./Tp meters	Ant. AAT meters	Construct Deadline Date
1	1	154.80000	MO	15	0	20K0F3E	35.000				
1	1	155.49000	MO	15	0	20K0F3E	35.000				
2	1	154.80000	FB	1	0	20K0F3E	35.000		23.0		
2	1	155.49000	FB	1	0	20K0F3E	35.000		23.0		

Control Points

Control Address  
Pt. No. 1 MUNICIPAL BLDG BROAD ST  
City FLORENCE County State NJ Telephone Number (609)499-3131