

**South Carolina Interoperability Channel Plan
And
Frequency Use Agreement**

March 15, 2017

1. ELIGIBILITY AND LICENSING

National Interoperability Channels

Under FCC Rules, an entity must have a license to operate a base or control station on National Interoperability Channels. Mobile/portable operation, however, is permitted on certain channels without an individual license (*i.e.*, a blanket licensing approach). Public safety licensees who are eligible to hold a Part 90 license, or who are licensed under Part 90 of the FCC Rules, can operate mobile units on these National interoperability channels without an individual license, except for the 700 MHz band in which case the entity must hold a Part 90 license.

All persons operating mobile or portable units under this authority are responsible for compliance with Part 90 of the FCC rules and other applicable federal laws.

South Carolina Interoperability Channels

The State of South Carolina holds licenses for additional interoperability channels. These licenses provide for:

- 1) Operation of VHF Low Band, VHF High Band, UHF, 700 MHz, and 800 MHz radio equipment on interoperability or mutual aid channels.
- 2) Operation of mobile, portable and temporary base radios only. Fixed-base stations, such as dispatch points, PSAPs, etc., must be separately licensed by the jurisdiction, agency or private emergency response organization.

By executing the attached ***Agreement*** associated with this Interoperability Channel Plan, eligible public safety entities may operate under these existing State of South Carolina licenses:

<u>Radio Band</u>	<u>FCC License</u>
VHF Low Band	WQGV825
VHF High Band	KB36284, WQDZ592, WQGC429, WQGV825, WQGJ882
UHF Band	WQDZ592, WQGC430
700MHz	WPTZ777
800 MHz	WPGJ693, WPFY293

This Channel Plan describes conditions and guidelines for use of state-licensed interoperability or mutual-aid radio channels by:

- 1) Local government jurisdictions and their emergency response agencies
- 2) State agencies
- 3) Federal agency offices in SC and their emergency response organizations
- 4) Private emergency response organizations licensed or eligible to operate in the Public Safety Pool as defined in Part 90 of the FCC Rules.

2. GENERAL CONDITIONS FOR USE OF INTEROPERABILITY CHANNELS

By executing the **Agreement** associated with this South Carolina Interoperability Channel Plan (SCICP), signatories agree to abide by the following general conditions:

Operational

Interoperability calling channels and tactical channels should be programmed into all mobile, portable, and temporary base radios operated by signatory agencies and organizations. At a minimum, the “*Required*” channels should be programmed into all radios operated by agency leadership (incident commanders, etc) as well as mobile command vehicles. Where radio channel capacity allows, the “*Recommended*” channels should also be programmed into the radios.

Use of the interoperability channels should be limited to their designated purpose of coordination between emergency response agencies and resources. Such coordination may occur during routine operations, enroute travel, or on scene.

The interoperability channels should not be used for routine dispatch operations, but may be used for routine and en-route communications in accordance with local and regional policies and procedures. The “8SCDIR1-5” channels may be used for intra-agency on scene communications.

Use of the interoperability channels shall be prioritized as follows:

- 1) Emergency or urgent operation involving imminent danger to life or property.
- 2) Disaster or extreme emergency operation requiring extensive interoperability and inter-agency communications.
- 3) Special events, generally of a pre-planned nature.
- 4) Joint training exercises.
- 5) Inter-agency and en-route communications in accordance with local and regional policies and procedures.

Use of the interoperability channels for on scene communications shall be in accordance with an Incident Communications Plan established by the incident commander.

The controlling agency for an incident shall, through its incident commander, assign and/or reassign interoperability channels for each operational period as required to support incident operations.

Radio communication procedures consistent with the National Incident Management System (NIMS) and Incident Command System (ICS) shall be implemented, including:

- 1) Use "plain language" without 10-codes or agency specific codes/jargon.
- 2) Use the calling order, "Agency Unit #, **this is** Agency Unit #" calling order, rather than "Unit # **to** Unit #" (Ex. "Highway Patrol 1605 this is Spartanburg Sheriff 102")

Interoperability channels shall be used only for voice traffic. Paging, DTMF signaling and SCADA operations are not permitted on interoperability channels.

Standardized Tone Squelch or Network Access Codes

Analog Operation:

The use of **CTCSS Tone 156.7 Hz (5A)** has been adopted for analog operations on all Interoperability Channels except for "8SCDIR1-5" which will transmit 100.0 Hz (1Z).

Digital Operation:

The use of default Network Access Code (NAC) \$293 has been adopted for all digital operations on Interoperability Channels:

Standardized Naming Format

Each FCC-designated Interoperability Channel in Public Safety Radio Services (47CFR Part 90) will have a unique name developed according to a standardized format. The list of National Interoperability Channels for Mutual Aid shows the FCC designated Interoperability Channels and the related Channel Name. This format consists of a maximum of eight characters. The list of South Carolina Interoperability Channels follows a similar naming format.

To alleviate confusion, the standard channel naming format listed in this plan should be used in all equipment.

VHF LOW BAND MUTUAL AID CHANNELS
(National and South Carolina Channels)

CHANNEL NAME	MOBILE RECEIVE	MOBILE TRANSMIT	STONE	MODE	USE
SCLTAC1	47.5000	47.5000	156.7	Wide	REQUIRED
LLAW1	39.4600	45.8600	156.7	Wide	REQUIRED
LLAW1D	39.4600	39.4600	156.7	Wide	
LFIRE2	39.4800	45.8800	156.7	Wide	REQUIRED
LFIRE2D	39.4800	39.4800	156.7	Wide	
LLAW3	45.8600	39.4600	156.7	Wide	REQUIRED
LLAW3D	45.8600	45.8600	156.7	Wide	
LLAW4	45.8800	39.4800	156.7	Wide	REQUIRED
LLAW4D	45.8800	45.8800	156.7	Wide	

- “D” = Direct Mode
- SCLTAC1 is licensed for South Carolina use only.

VHF HIGH BAND MUTUAL AID CHANNELS
(National and South Carolina Channels)

CHANNEL NAME	MOBILE RECEIVE	MOBILE TRANSMIT	ZONE	USE
VCALL10	155.7525	155.7525	156.7	REQUIRED – Calling Channel
VTAC11	151.1375	151.1375	156.7	REQUIRED
VTAC12	154.4525	154.4525	156.7	REQUIRED
VTAC13	158.7375	158.7375	156.7	REQUIRED
VTAC14	159.4725	159.4725	156.7	REQUIRED
VFIRE21	154.2800	154.2800	156.7	REQUIRED
VFIRE22	154.2650	154.2650	156.7	RECOMMENDED
VFIRE23	154.2950	154.2950	156.7	RECOMMENDED
VFIRE24	154.2725	154.2725	156.7	RECOMMENDED
VFIRE25	154.2875	154.2875	156.7	RECOMMENDED
VFIRE26	154.3025	154.3025	156.7	RECOMMENDED
VMED28	155.3400	155.3400	156.7	REQUIRED - EMS
VMED29	155.3475	155.3475	156.7	OPTIONAL
VLAW31	155.4750	155.4750	156.7	REQUIRED - LAW
VLAW32	155.4825	155.4825	156.7	RECOMMENDED
VTAC33	159.4725	151.1375	136.5	RECOMMENDED Deployable Repeaters Only
VTAC34	158.7375	154.4525	136.5	RECOMMENDED Deployable Repeaters Only
VTAC35	159.4725	158.7375	136.5	RECOMMENDED Deployable Repeaters Only
VTAC36	151.1375	159.4725	136.5	RECOMMENDED Deployable Repeaters Only
VTAC37	154.4525	158.7375	136.5	RECOMMENDED Deployable Repeaters Only
VTAC38	158.7375	159.4725	136.5	RECOMMENDED Deployable Repeaters Only
SCVTAC1	155.9550	155.9550	156.7	REQUIRED
SCVTAC2	155.1600	155.1600	156.7	REQUIRED
SCVTAC3	155.5350	155.5350	156.7	REQUIRED IN: Chester, Lancaster, Union, York
SCVTAC4	155.5500	155.5500	156.7	REQUIRED IN: Clarendon, Kershaw, Lee, Sumter
SCVTAC5	155.0100	155.0100	156.7	REQUIRED IN: Georgetown, Horry, Williamsburg
SCVTAC6	155.0700	155.0700	156.7	REQUIRED IN: Berkeley, Charleston, Dorchester
SCVAG1	155.4450	155.4450	156.7	REQUIRED FOR AIR/GROUND

- **SCVTACs and SCVAG1 are licensed for South Carolina use only.**

UHF MUTUAL AID CHANNELS
(National and South Carolina Channels)

CHANNEL NAME	MOBILE RECEIVE	MOBILE TRANSMIT	TONE	USE
UCALL40	453.2125	458.2125	156.7	REQUIRED – Calling Channel
UCALL40D	453.2125	453.2125	156.7	
UTAC41	453.4625	458.4625	156.7	REQUIRED
UTAC41D	453.4625	453.4625	156.7	
UTAC42	453.7125	458.7125	156.7	REQUIRED
UTAC42D	453.7125	453.7125	156.7	
UTAC43	453.8625	458.8625	156.7	REQUIRED
UTAC43D	453.8625	453.8625	156.7	
SCUTAC1	460.2500	460.2500	156.7	REQUIRED IN: Anderson, Cherokee, Greenville, Oconee, Pickens, Spartanburg, Chesterfield, Darlington, Dillon, Florence, Marion, Marlboro
SCUTAC2	453.4500	453.4500	156.7	REQUIRED IN: Abbeville, Edgefield, Greenwood, Laurens, McCormick, Saluda
SCUTAC3	460.0500	460.0500	156.7	REQUIRED IN: Fairfield, Lexington, Newberry, Richland
SCUTAC4	453.1500	453.1500	156.7	REQUIRED IN: Aiken, Allendale, Bamberg, Barnwell, Calhoun, Orangeburg
SCUTAC5	460.275	460.275	156.7	REQUIRED IN: Beaufort, Colleton, Hampton, Jasper

- “D” = Direct Mode
- SCUTACs are licensed for South Carolina use only.

700 MHz MUTUAL AID CHANNELS
(National Channels)

12.5 KHz – DIGITAL MODE ONLY

CHANNEL NAME	MOBILE RECEIVE	MOBILE TRANSMIT	NAC	USE
7CALL50	769.24375	799.24375	\$293	REQUIRED Calling Channel
7CALL50D	769.24375	769.24375	\$293	
7TAC51	769.14375	799.14375	\$293	REQUIRED
7TAC51D	769.14375	769.14375	\$293	
7TAC52	769.64375	799.64375	\$293	REQUIRED
7TAC52D	769.64375	769.64375	\$293	
7TAC53	770.14375	800.14375	\$293	REQUIRED
7TAC53D	770.14375	770.14375	\$293	
7TAC54	770.64375	800.64375	\$293	REQUIRED
7TAC54D	770.64375	770.64375	\$293	
7TAC55	769.74375	799.74375	\$293	REQUIRED
7TAC55D	769.74375	769.74375	\$293	
7TAC56	770.24375	800.24375	\$293	REQUIRED
7TAC56D	770.24375	770.24375	\$293	
7GTAC57	770.99375	800.99375	\$293	REQUIRED
7GTAC57D	770.99375	770.99375	\$293	
7LAW61	770.39375	800.39375	\$293	REQUIRED - LAW
7LAW61D	770.39375	770.39375	\$293	
7LAW62	770.49375	800.49375	\$293	REQUIRED - LAW
7LAW62D	770.49375	770.49375	\$293	
7FIRE63	769.89375	799.89375	\$293	REQUIRED - FIRE
7FIRE63D	769.89375	769.89375	\$293	
7FIRE64	769.99375	799.99375	\$293	REQUIRED - FIRE
7FIRE64D	769.99375	769.99375	\$293	
7MED65	769.39375	799.39375	\$293	REQUIRED - EMS
7MED65D	769.39375	769.39375	\$293	
7MED66	769.49375	799.49375	\$293	REQUIRED - EMS
7MED66D	769.49375	769.49375	\$293	

- “D” = Direct Mode

700 MHz MUTUAL AID CHANNELS
(South Carolina Use Only)

12.5 KHz - DIGITAL MODE ONLY

CHANNEL NAME	MOBILE RECEIVE	MOBILE TRANSMIT	NAC	USE
7SCTAC1	773.03125	803.03125	\$293	REQUIRED
7SCTAC1D	773.03125	773.03125	\$293	
7SCTAC2	773.28125	803.28125	\$293	REQUIRED
7SCTAC2D	773.28125	773.28125	\$293	
7SCTAC3	773.53125	803.53125	\$293	REQUIRED
7SCTAC3D	773.53125	773.53125	\$293	
7SCTAC4	773.78125	803.78125	\$293	REQUIRED
7SCTAC4D	773.78125	773.78125	\$293	
7SCTAC5	774.03125	804.03125	\$293	REQUIRED
7SCTAC5D	774.03125	774.03125	\$293	
7SCTAC6	774.28125	804.28125	\$293	REQUIRED
7SCTAC6D	774.28125	774.28125	\$293	
7SCTAC7	774.53125	804.53125	\$293	REQUIRED
7SCTAC7D	774.53125	774.53125	\$293	
7SCTAC8	774.78125	804.78125	\$293	REQUIRED
7SCTAC8D	774.78125	774.78125	\$293	
South Carolina 700 MHz Portable Repeater/Aviation Mutual Aid Channels				
7SCPRT1	773.05625	803.05625	\$293	REQUIRED
7SCPRT1D	773.05625	773.05625	\$293	
7SCPRT2	773.30625	803.30625	\$293	REQUIRED
7SCPRT2D	773.30625	773.30625	\$293	
7SCPRT3	773.55625	803.55625	\$293	REQUIRED
7SCPRT3D	773.55625	773.55625	\$293	
7SCPRT4	773.80625	803.80625	\$293	REQUIRED
7SCPRT4D	773.80625	773.80625	\$293	
7SCPRT5	774.05625	804.05625	\$293	REQUIRED
7SCPRT5D	774.05625	774.05625	\$293	
7SCPRT6	774.30625	804.30625	\$293	REQUIRED
7SCPRT6D	774.30625	774.30625	\$293	
7SCPRT7	774.55625	804.55625	\$293	REQUIRED
7SCPRT7D	774.55625	774.55625	\$293	
7SCPRT8	774.80625	804.80625	\$293	REQUIRED
7SCPRT8D	774.80625	774.80625	\$293	

- “D” = Direct Mode

800 MHz MUTUAL AID CHANNELS
(National and South Carolina Channels)

CHANNEL NAME	MOBILE RECEIVE	MOBILE TRANSMIT	STONE	MODE	USE
8CALL90	851.0125	806.0125	156.7	W/A	REQUIRED Calling Channel
8CALL90D	851.0125	851.0125	156.7	W/A	
8TAC91	851.5125	806.5125	156.7	W/A	REQUIRED
8TAC91D	851.5125	851.5125	156.7	W/A	
8TAC92	852.0125	807.0125	156.7	W/A	REQUIRED
8TAC92D	852.0125	852.0125	156.7	W/A	
8TAC93	852.5125	807.5125	156.7	W/A	REQUIRED
8TAC93D	852.5125	852.5125	156.7	W/A	
8TAC94	853.0125	808.0125	156.7	W/A	REQUIRED
8TAC94D	853.0125	853.0125	156.7	W/A	
8SCTAC1	851.2250	806.2250	156.7	W/A	REQUIRED
8SCTAC1D	851.2250	851.2250	156.7	W/A	
8SCTAC2	851.6875	806.6875	156.7	W/A	REQUIRED
8SCTAC2D	851.6875	851.6875	156.7	W/A	
8SCTAC3	852.7750	807.7750	156.7	W/A	REQUIRED
8SCTAC3D	852.7750	852.7750	156.7	W/A	
8SCTAC4	853.6375	808.6375	156.7	W/A	REQUIRED
8SCTAC4D	853.6375	853.6375	156.7	W/A	
8SCTAC5	853.9750	808.9750	156.7	W/A	REQUIRED
8SCTAC5D	853.9750	853.9750	156.7	W/A	
8SCDIR1	851.2250	851.2250	100.0	W/A	REQUIRED - On Scene
8SCDIR2	851.6875	851.6875	100.0	W/A	REQUIRED - On Scene
8SCDIR3	852.7750	852.7750	100.0	W/A	REQUIRED - On Scene
8SCDIR4	853.6375	853.6375	100.0	W/A	REQUIRED - On Scene
8SCDIR5	853.9750	853.9750	100.0	W/A	REQUIRED - On Scene
8SCDTAC4	853.6375	853.6375	\$293	W/D	OPTIONAL
8SCDTAC5	853.9750	853.9750	\$293	W/D	OPTIONAL

- Channel labels that include an "S" are licensed for South Carolina use only.
- "W" = Wideband Mode
- "A" = Analog Mode
- "D" = Digital Mode

Agreement

The *South Carolina Interoperability Channel Plan* is incorporated into the attached **Agreement** in its entirety. To apply, submit a signed copy of the Agreement to:

Robert D. Steadman
Statewide Interoperability Coordinator
SC Division of Technology Operations
4430 Broad River Road
Columbia, SC 29210
robert.steadman@admin.sc.gov

Notice of withdrawal from the Agreement shall be submitted in writing to the Statewide Interoperability Coordinator.

Interoperability Frequency Use Agreement
Between the State of South Carolina and the Applicant Agency

Applicant Agency

Date Submitted: _____

Agency Name: _____

Street Address: _____

City, State, Zip: _____

Contact: _____ Tel _____ Email: _____

Is the Applicant a State Agency? Yes _____ No _____

Agency type? (Check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Law Enforcement | <input type="checkbox"/> Fire |
| <input type="checkbox"/> Emergency Medical | <input type="checkbox"/> Search and Rescue |
| <input type="checkbox"/> Emergency Management | <input type="checkbox"/> Military |
| <input type="checkbox"/> Other Governmental (Type) | |
- _____

Area of responsibility?

- | | |
|--|------------------------------------|
| <input type="checkbox"/> Local (City/Town) | <input type="checkbox"/> County |
| <input type="checkbox"/> Regional | <input type="checkbox"/> Statewide |

<u>Frequency Band</u>	<u># of Temp Bases</u>	<u># of Mobiles</u>	<u># of Portables</u>
VHF- Low Band	_____	_____	_____
VHF- High Band	_____	_____	_____
UHF Band	_____	_____	_____
700 MHz Band	_____	_____	_____
800 MHz Band	_____	_____	_____

Applicant Agency Requestor

Name: _____ Signature: _____

Tel: _____ Email: _____

State of South Carolina Approval

Name: _____ Signature: _____

Agency: _____ Date: _____