

NCDOT Power Line Safety

PRE-PLANNING—SUPERVISOR

1. LOCATE POWER LINES AND OBTAIN INFO FROM POLE.
2. CALL *811 TO DETERMINE UTILITY OWNER.
3. CALL AND EMAIL OWNER REQUESTING VOLTAGE INFORMATION
4. EVALUATE ABILITY TO WORK NEAR POWER LINES.

CHOOSE THE OPTIONS BEST SUITED FOR WORK CONDITIONS

1. OPTION 1---DE-ENERGIZE POWER LINES
2. OPTION 2---MAINTAIN 20 FOOT CLEARANCE FROM POWER LINES
3. OPTION 3--- USE TABLE A FOR MINIMUM CLEARANCE

<u>Table A – Minimum Clearance Distances</u> Voltage (nominal, kV, alternating current)	<u>Minimum clearance distance (feet)</u>
Up to 50	<u>10</u>
Over 50 to 200	<u>15</u>
Over 200 to 350	<u>20</u>
Over 350 to 1,000	<u>Consult Power Line Owner/Service</u>

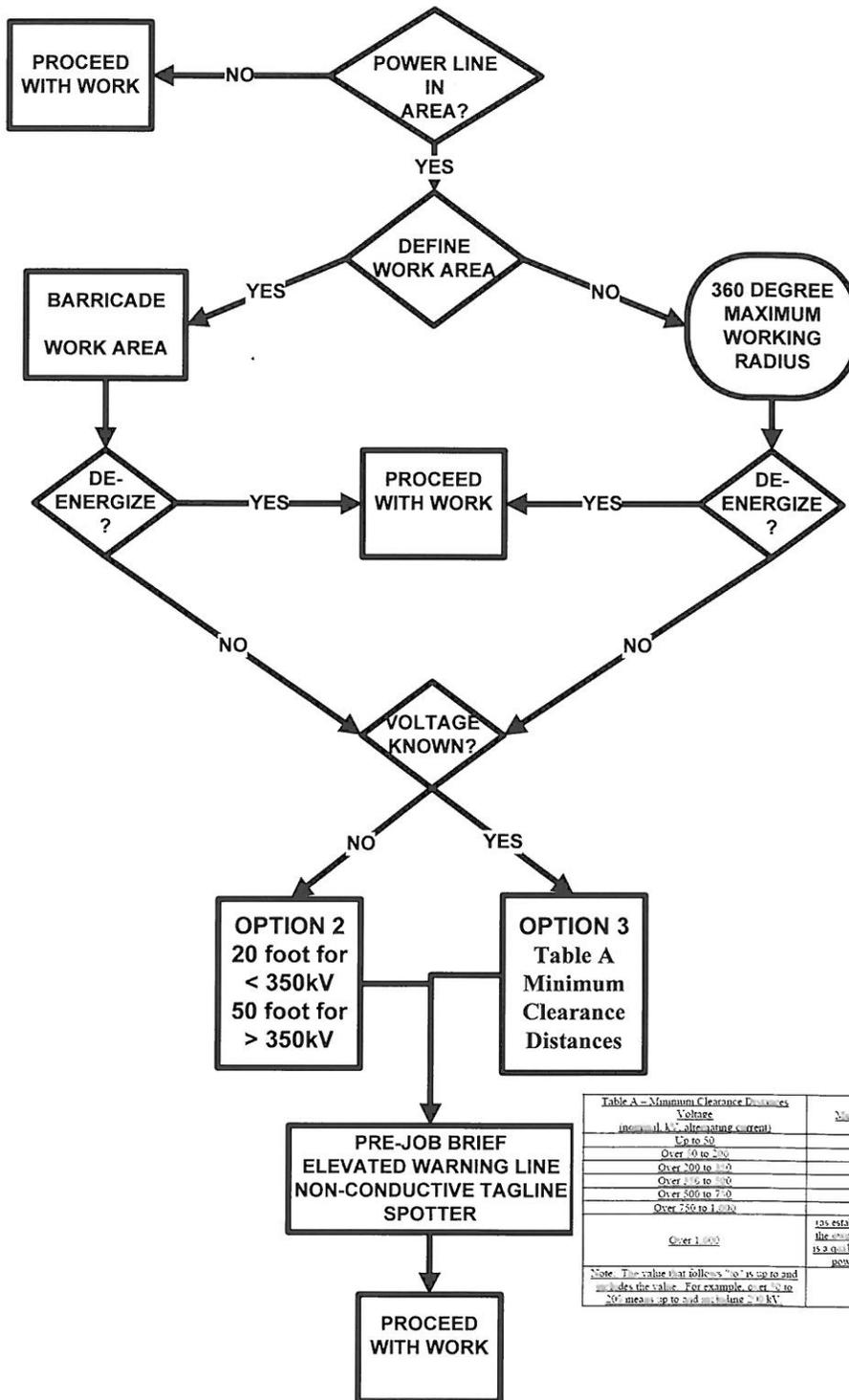
WORKING CLOSER TO POWER LINES INSIDE TABLE A MINIMUM CLEARANCES IS PROHIBITED UNLESS THE POWER LINE OWNER HAS BEEN CONSULTED AND WRITTEN PROCEDURE HAS BEEN DEVELOPED.

WORK SITE—CREW LEADER AND CRANE OPERATOR

1. PRE-JOB BRIEF TO DISCUSS PROTECTIVE MEASURES AND VOLTAGE.
2. SET-UP ELEVATED WARNING LINE.
3. USE NON-CONDUCTIVE TAGLINES AND SLINGS.
4. USE A SPOTTER TO WARN CRANE OPERATOR AND CREW.

ELEVATED WARNING LINE OPTIONS

1. OVERHEAD POWER LINES SLEEVES OVER TRAFFIC CONES.
2. NON-CONDUCTIVE POLES WITH ROPE OR RED WARNING TAPE.
3. FENCING WITH OVERHEAD POWER LINE SIGNS.



Voltage (nominal AC alternating current)	Minimum clearance distance (feet)
Up to 50	10
Over 50 to 200	15
Over 200 to 350	20
Over 350 to 500	25
Over 500 to 750	35
Over 750 to 1,000	45
Over 1,000	As established by a qualified engineer or by the owner or operator of the power line who is a qualified person with respect to electrical power transmission and distribution.

Note: The value that follows "or" is up to and includes the value. For example, over 10 to 20" means up to and including line 20 kV.