

Appendix G11B

Determining Data on One Span, Original Data Known

Situation: The user has sag & tension information on a particular section of line, but would like more information on one span within that ruling span, perhaps to modify the line (such as adding marker balls, changing the supporting structure, etc.).

LOADINGS				
Deg F	Inch	Lb/Ft	% or Lb	
TEMP	ICE	WIND	TENSION	CODE
0.0	0.50	4.00	0.600	1
32.0	0.50			
60.0			0.350	1
60.0			0.250	2
60.0				2
120.0				

Step #1:
The original design criteria are entered into the loadings table.

Ruling Spans

SPAN (Feet)
1000.0

Step #2:
The actual ruling span for the section of line is entered

RULING SPAN= 1000.0 Feet
STRINGING SPANS English Units

Step #3:
When the prompt appears for stringing sags, enter the single span length for which further information is requested.

SPAN (Feet) INCR
937.0

Use Initial Conditions & Decimal

Step #4:
String sags should be Initial.
Units should be Decimal.

Stringing	
Temperatures - Deg F	
Starting Temperature :	60.0
Increment :	0.0
Ending Temperature :	60.0

Step #5:
Enter an arbitrary temperature such as 60 F.

Stringing Sag Table Using Initial Sag Ruling Span: 1000.0 Feet

```

-----
CONDUCTOR      7# 8 ALUMOWELD
values.
-----
NESC Heavy Load Zone           Max Tension = 7222. LB
-----
Design:  25 % Ult. @ 60.0 Deg F, .00 IN Ice, .0 PSF Wind, Final
-----
H Tens  3980.
(LBS)   -----
that one span
Temp F > 60.
Sag     Feet
Span    -----
1000.0  8.22
    
```

Step #6:
Print stringing sag

Step #7:
The sag value obtained is the sag for
at the indicated temperature.

LOADINGS				
Deg F	Inch	Lb/Ft	% or Lb	
TEMP	ICE	WIND	TENSION	CODE
0.0	0.50	4.00		1
32.0	0.50			
-20.0				
60.0				2
60.0			-8.22	1
120.0				

Step #8:
Create a new Problem File, using the sag
obtained above as the only design condition.

Ruling Spans

SPAN (Feet)
937.0

Step #9:
Use the span length for which further information is requested.
The sag & tension output will not be for a ruling span, but will
be specific to the span in question.