CH2M HILL
2485 Natomas Park Drive
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Sacramento, CA 95833
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CH2MHILL

January 5, 2007
338307

Dr. James Reede
Energy Facility Siting Project Manager
California Energy Commission
1516 Ninth Street, MS-15
Sacramento, CA 95814-5512

RE: Data Response, Set 1C
Vernon Power Project (06-AFC-4)

On behalf of the City of Vernon, please find attached 12 copies and one original of the Data Responses, Set 1C, in response to Staff's Data Requests dated October 6, 2006 and comments raised at the Issue Resolution Workshop held on November 30, 2006. We are also filing copies of this Data Response electronically.

Please call me if you have any questions.

Sincerely,

CH2M HILL

John L. Carrier, J.D.
Program Manager

c: Project File
Proof of Service List

VERNON POWER PLANT
(06-AFC-4)

DATA RESPONSE, SET 1C

(Responses to Data Request: Air Quality No. 16)

Submitted by

City of Vernon

January 5, 2007

CH2MHILL

2485 Natomas Park Drive, Suite 600
Sacramento, California 95833-2937

VERNON POWER PLANT
(06-AFC-4)
DATA RESPONSES, SET 1C

Technical Area: Air Quality
CEC Author: Joe Loyer

BACKGROUND

Staff intends to conduct a plume modeling analysis using the Combustion Stack Visible Plume (CSVP) model and the Seasonal Annual Cooling Tower Impact (SACTI) model for the project, as is done for all projects with cooling towers. Staff will provide the applicant with a copy of the CSVP model training manual upon request.

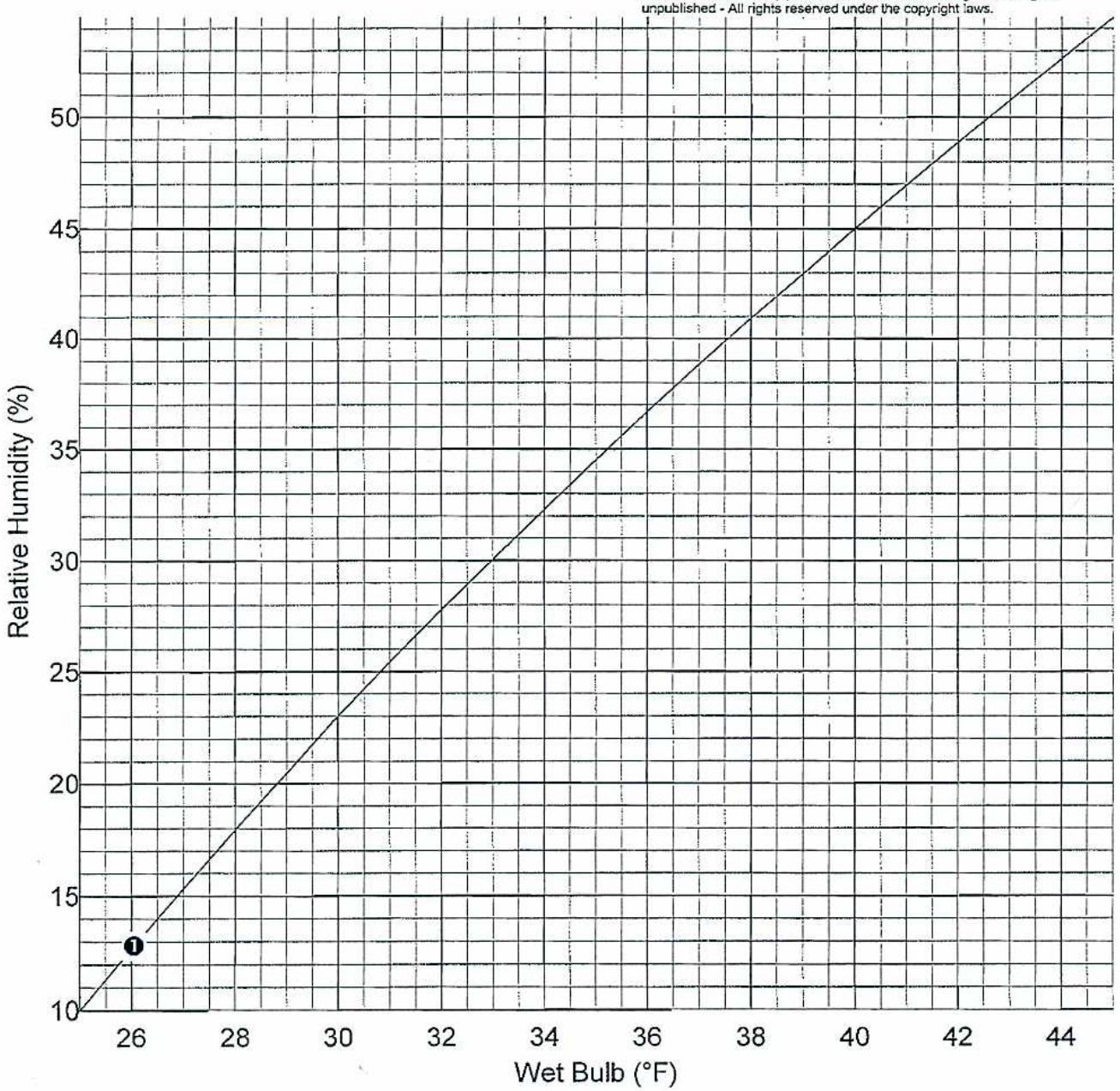
DATA REQUEST

16. Please provide a fogging frequency curve from the cooling tower vendor, if available.

Response: Data Response Set 1B omitted the fogging frequency curves for the non-duct fired cases because they had not been received at the time of filing. They are now being provided as Attachment AQ-16B.

ATTACHMENT AQ-16B

Fogging Frequency Curve for
City of Vernon, CA



SPX Cooling Technologies
TRACS Version 04-AUG-06

Model	F499A-5.0-14B
Number of Cells	14
Motor Output	232.2HP
Motor RPM	1800
Fan	336HP7-9
Fan RPM (Full Speed)	129

Curve Conditions:

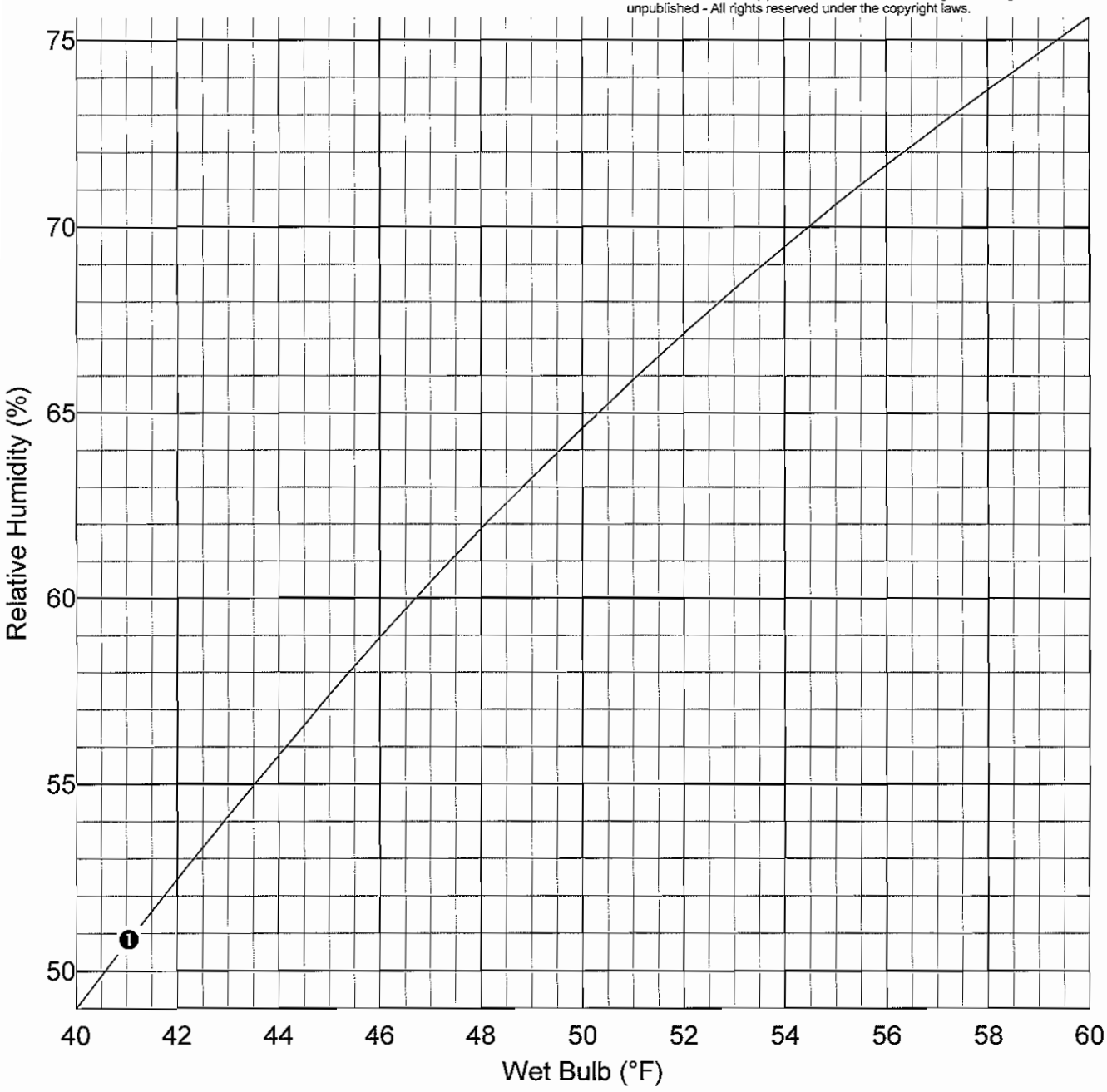
Fan Pitch	Constant
Flow Rate	202000GPM
(100% Design Flow)	

FOGGING FREQUENCY CURVE: The curve shown to the left is referred to as a 'Fogging Freqency Curve'. The Fogging Freqency Curve separates entering cooling tower conditions that produce fog at the discharge (Top-Left region of chart) from those that do not produce fog (Bottom-Right region of chart)

❶ 17.1 °F Range

Time: 08:27:30 Date: 12-12-2006 Drawn By: GFA

Fogging Frequency Curve for City of Vernon, CA



SPX Cooling Technologies
TRACS Version 04-AUG-06

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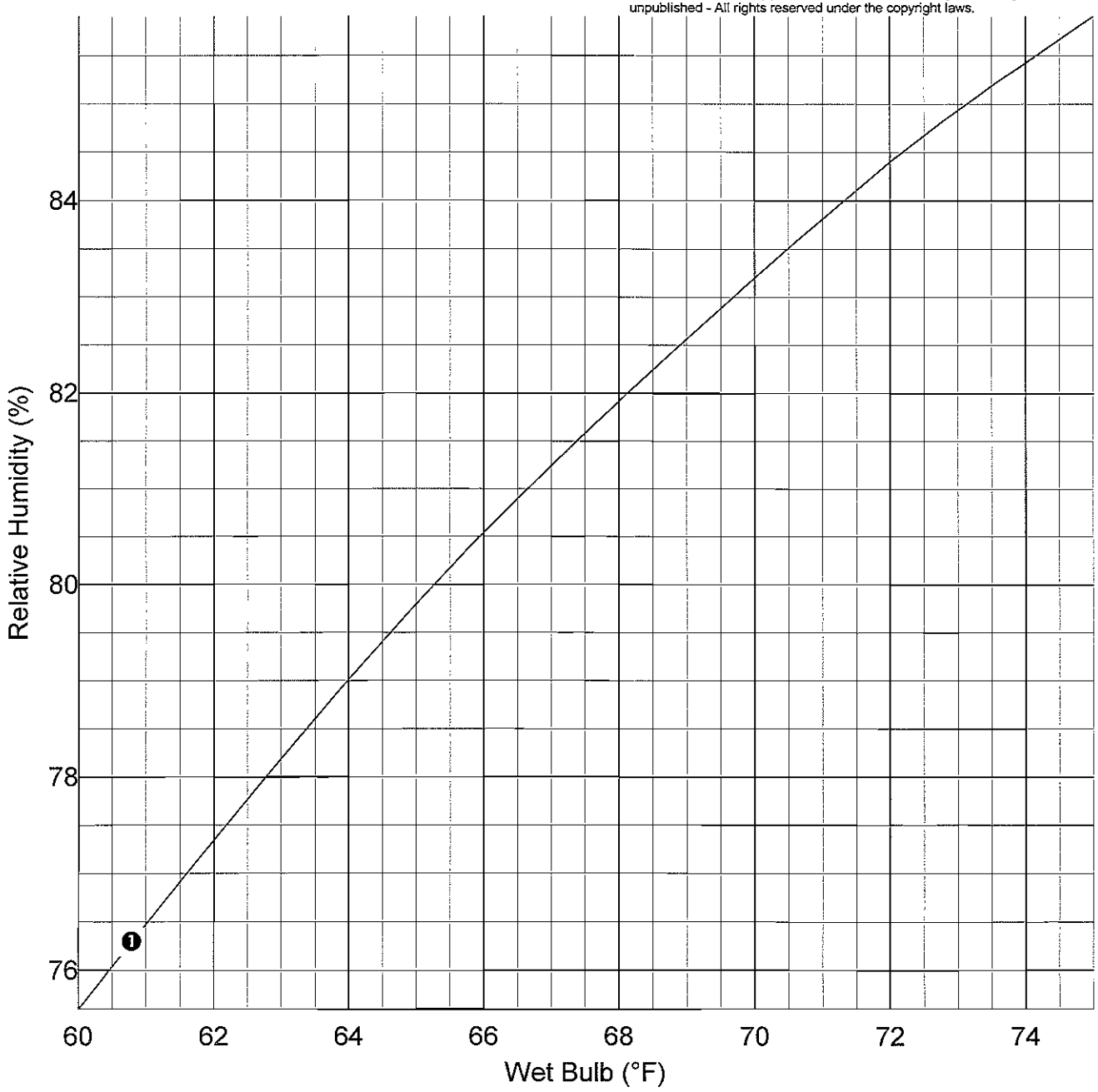
❶ 16.73 °F Range

Time: 08:38:56 Date: 12-12-2006 Drawn By: GFA

Fogging Frequency Curve for City of Vernon, CA

SPX Cooling Technologies
TRACS Version 04-AUG-06



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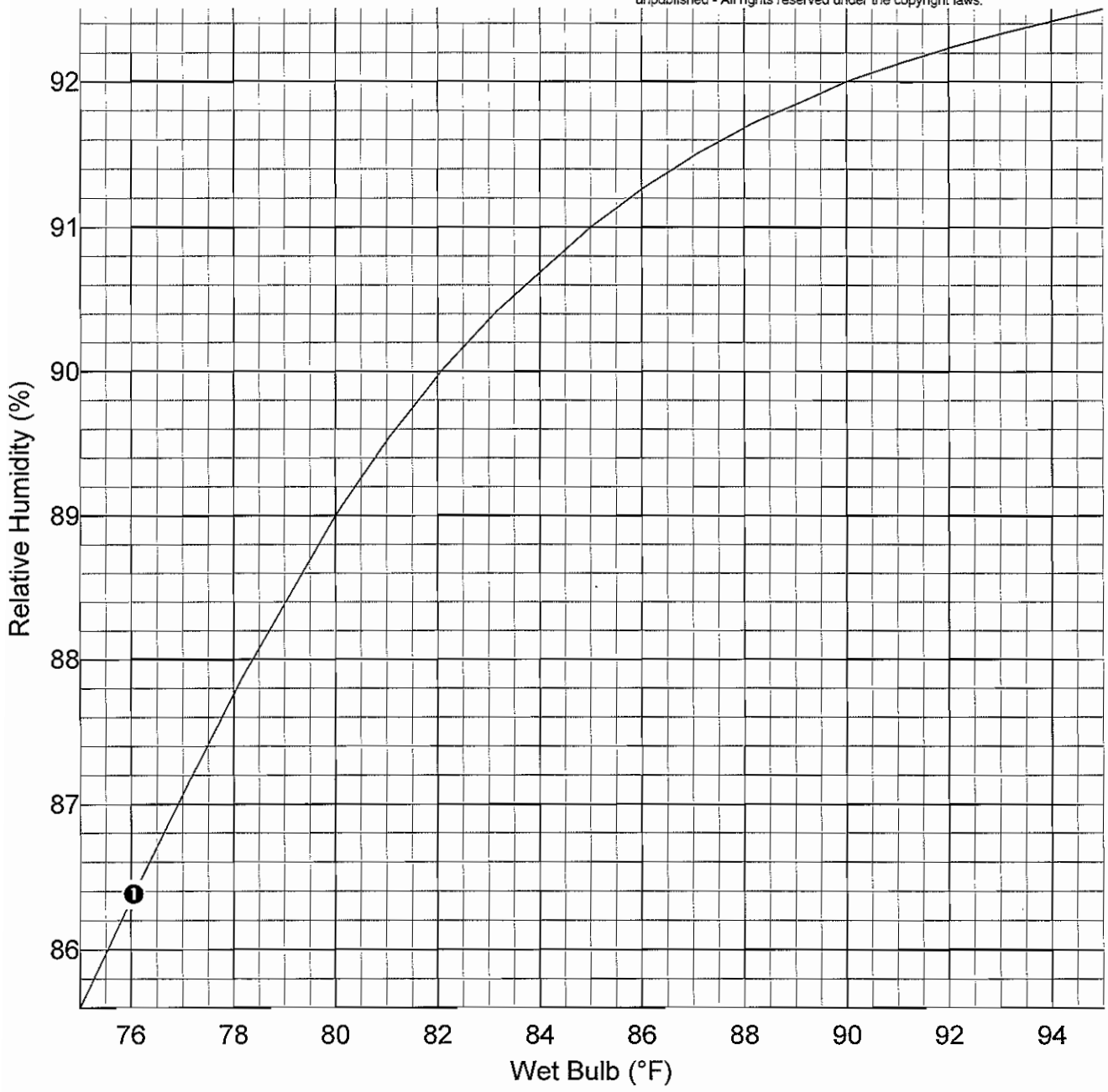
❶ 16.73 °F Range

Time: 09:32:33 Date: 01-04-2007 Drawn By: GFA

Fogging Frequency Curve for City of Vernon, CA



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❶ 16 °F Range

Time: 09:13:48 Date: 12-12-2006 Drawn By: GFA