

Status of Seismic Measurements at LIGO Sites

Lisa Sievers

February 9, 1995

AGENDA FOR THE LIGO INTEGRATION MEETING

9 February 1995

Facilities

0900 - 0930

- Ground motion measurements at the sites
- Foundation motions and alignment

Lisa Sievers

Mike Gamble

Beam Tube

0930 - 1030

- QT Status & Baffle design issues
- Tube motion analysis
- Beam tube scattering measurements & baffle material options
- Synopsis of the Baffle Review Meeting

Larry Jones

Mike Gamble

Rai Weiss

Albert Lazzarini

BREAK

1030 -1045

Vacuum Equipment

1045 - 1115

- Deferral of getter pump procurement for initial interferometer
- Procurement status & update

Mike Zucker

John Worden

Detector

1130 - 1245

- Length control modeling
- IFO configuration definition

Lisa Sievers

Jordan Camp

Dave Redding (JPL)

Yaron Hefetz

Ambient Ground Measurements

Hanford, WA

1. Measurements complete
2. Report due at end of February including power spectra and histograms (3 orientations at vertex and end stations)
3. Most interesting plots are:
 - a. Nighttime measurements
 - b. Daytime measurements during peak traffic
 - c. Measurements showing wind effects
 - d. Measurements showing features due to Yakima Firing Range

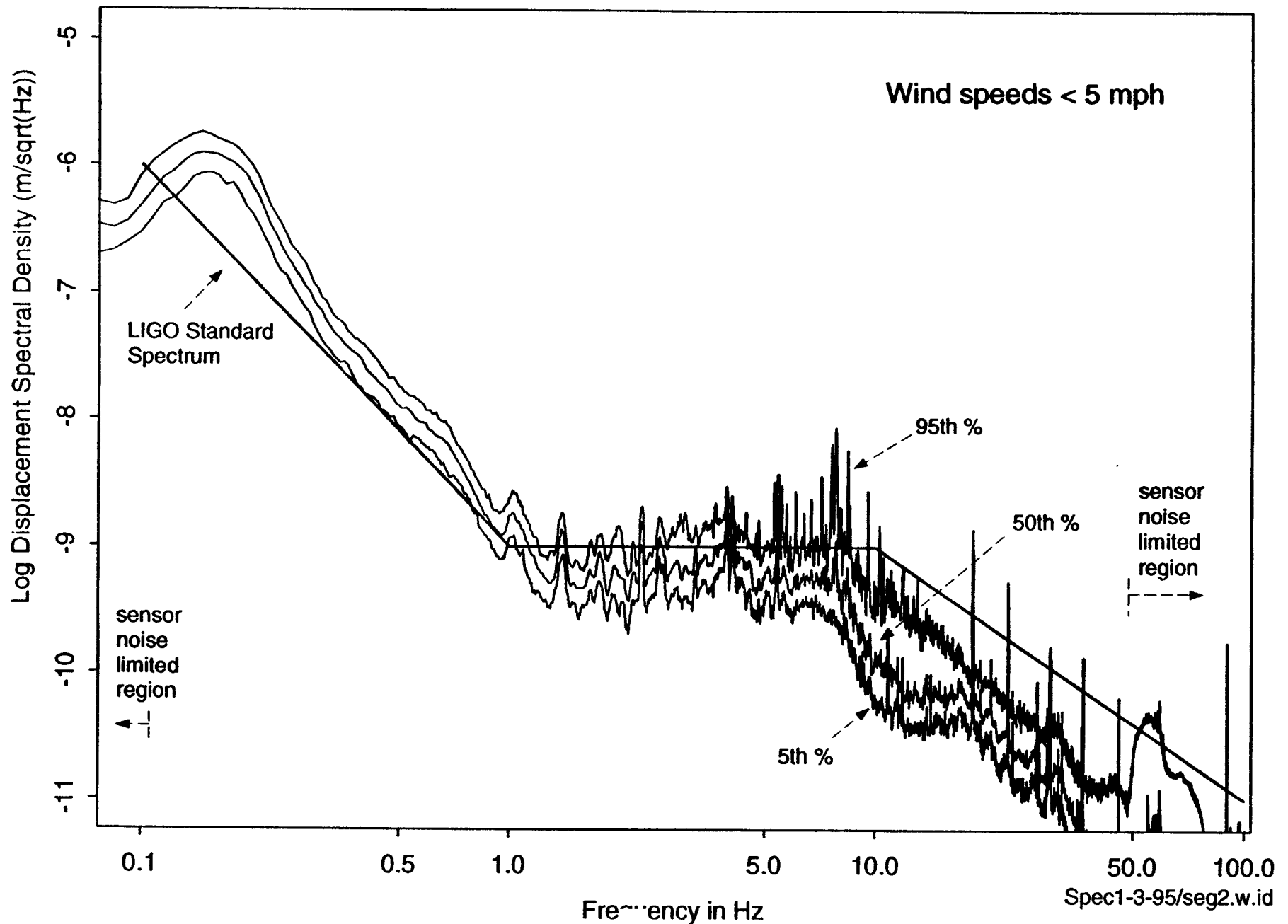
← see signal above peak traffic measurements

← big peak at 10 Hz

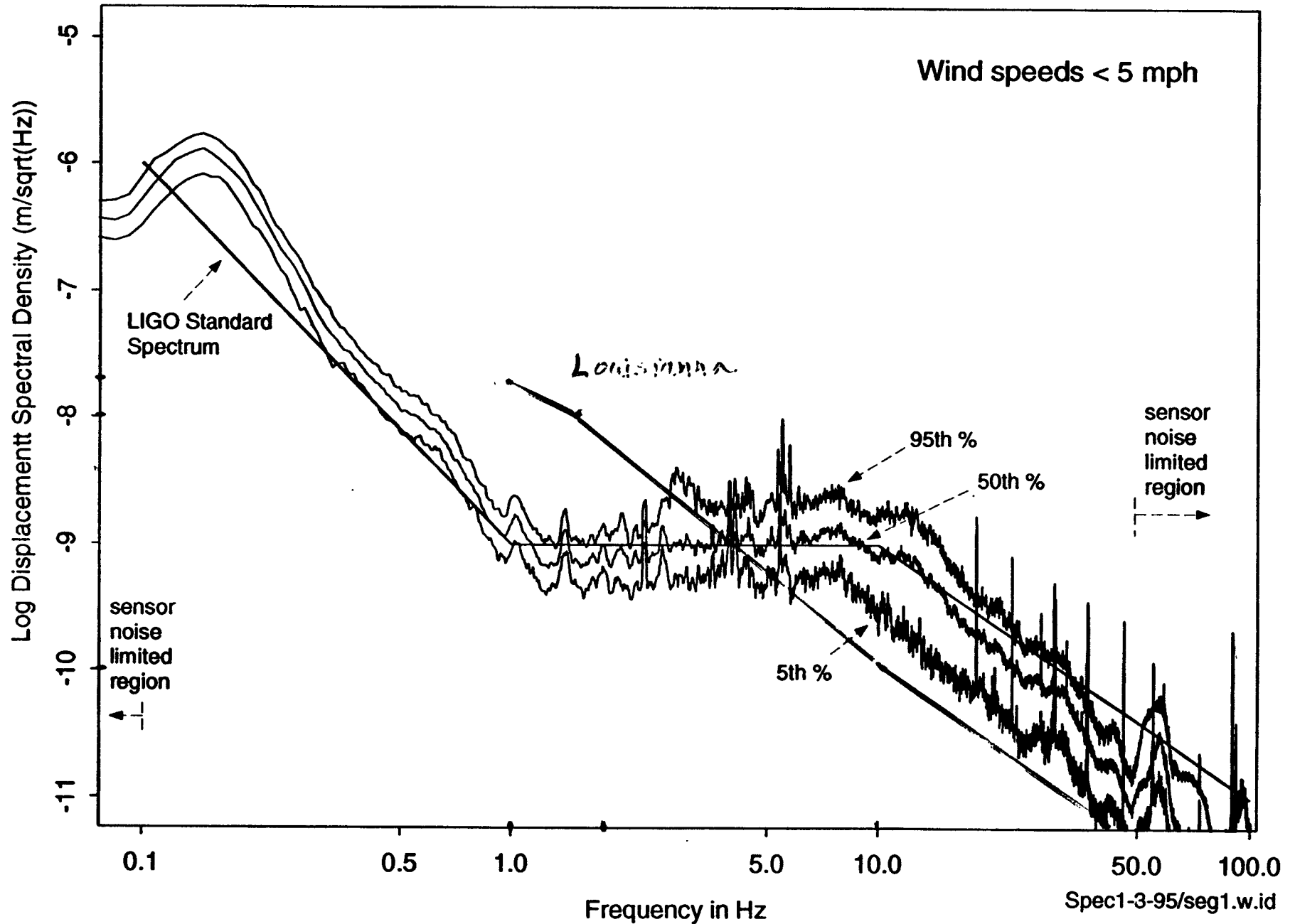
Livingston, LA

1. Only spectra available to date, is data used in '89 proposal
2. Statement of Work written for new measurements to be taken on site
3. No agreed upon time yet when measurements will commence (probably April)

Hanford Corner Station SW Arm Axis, Late Night December 12, 1994 (Preliminary Data)



Hanford Corner Station SW Arm Axis, Morning Traffic December 13, 1994 (Preliminary Data)



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