

NORTHROP GRUMMAN

20 June 1997

150P-97-181

Commercial Aircraft Division
Northrop Grumman Corporation
One Northrop Avenue
Hawthorne, California 90250-3277
Telephone 310-332-1000

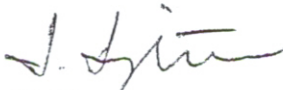
Stringray Electric Incomp.
Attn: Jim Thomas
39525 Los Alamos Road
Suite A313
Murrieta, CA 94563

Dear Mr. Thomas:

Northrop Grumman Corporation, Commercial Aircraft Division, Hawthorne Center, first purchased 400 watt metal halide Dual Reflector System (D.R.S.) fixtures in June, 1996. We required new overhead lighting for the production sub-assembly operations on the 747 Program. These operations include drill and rivet and sub-assembly activities.

We are very pleased with the lighting levels (foot candles) in our low bay areas. Operations in these areas provided sufficient foot candle illumination plus provided an added benefit of energy utility savings. The new 400 watt fixtures replaced 1000 watt fixtures.

We will continue to make lighting upgrades using the D.R.S. 400 watt fixture in other areas of our Hawthorne plant.



T. Tipton
Plant Engineering
(310) 331-7710

