Progress Energy Lee 1 Parametric Testing

Bituminous Coal, CS-ESP, B-PAC™ sorbent

Flue Gas Conditioning Issue – SO_3 at 8-15 ppm

- FGC was before the air preheater
- Temperature below the acid dew point on the cold side

1 - cold-side B-PAC™ injection with FGC on

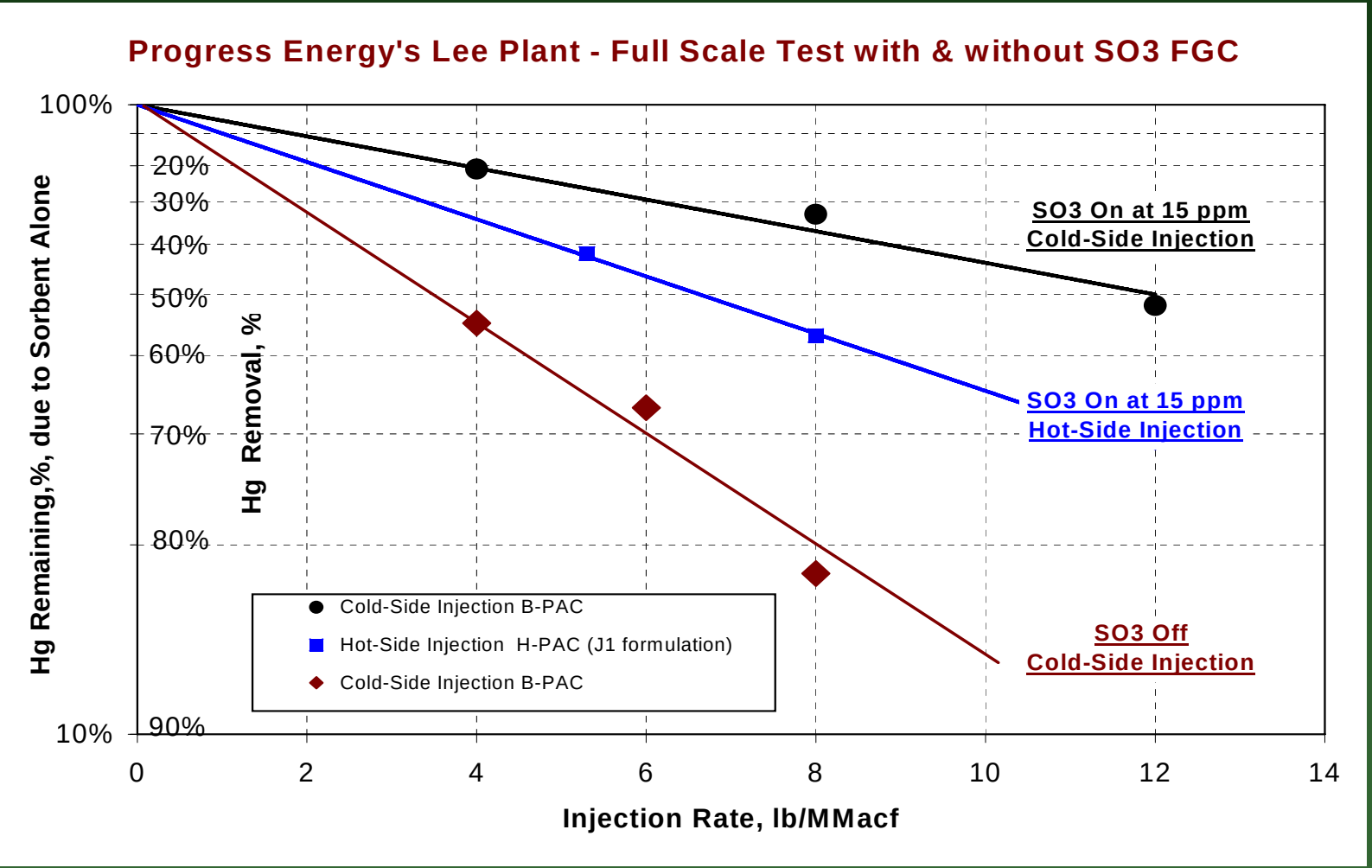
2 - hot-side H-PAC™ injection with FGC on (but no room)

3 - cold-side B-PAC™ injection with FGC off (but opacity?)

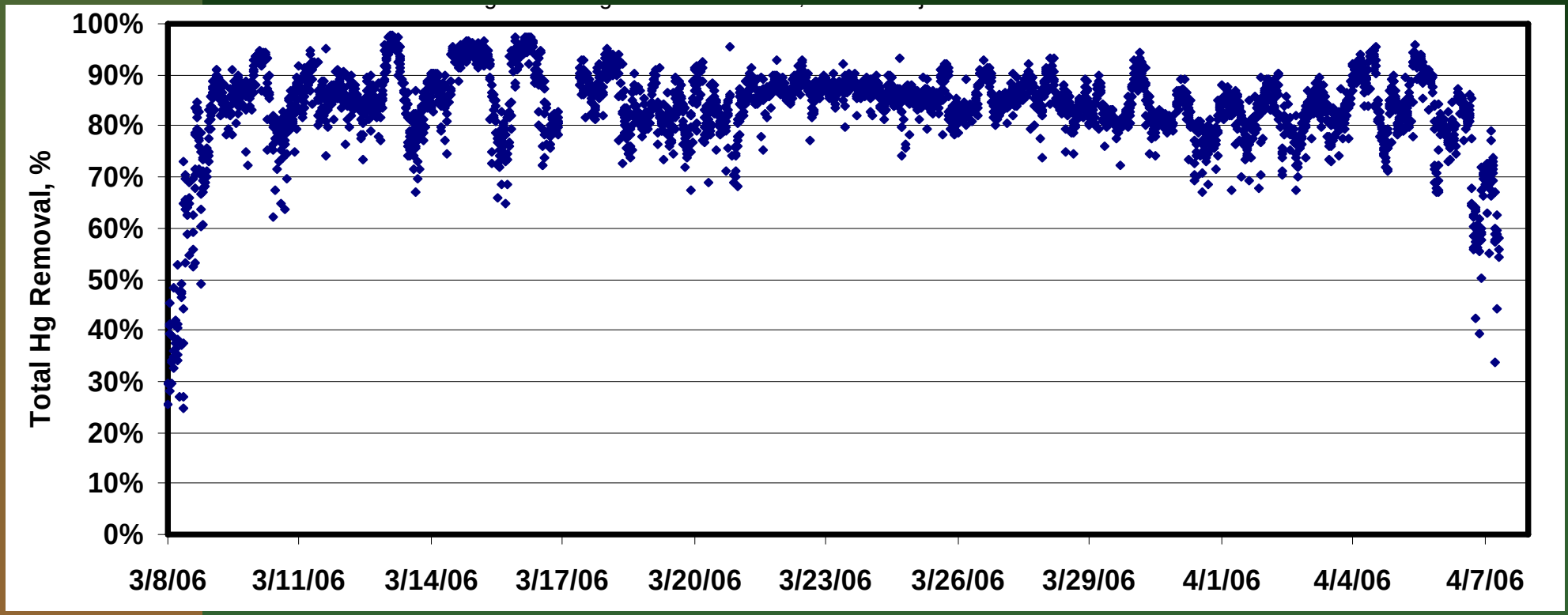
4 - move FGC to ESP plenum, but expensive

Progress Energy's Lee Station Unit 1

Parametric Testing – B-PAC & H-PAC



B-PAC™ & Bituminous: 85% Removal at 8 lb/MMacf



Because of opacity co-benefits of B-PAC™, the SO_3 flue gas conditioning was able to be turned off for the 30-day continuous trial