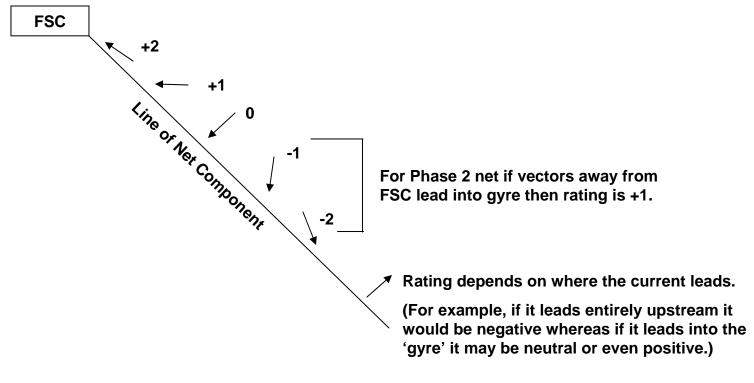
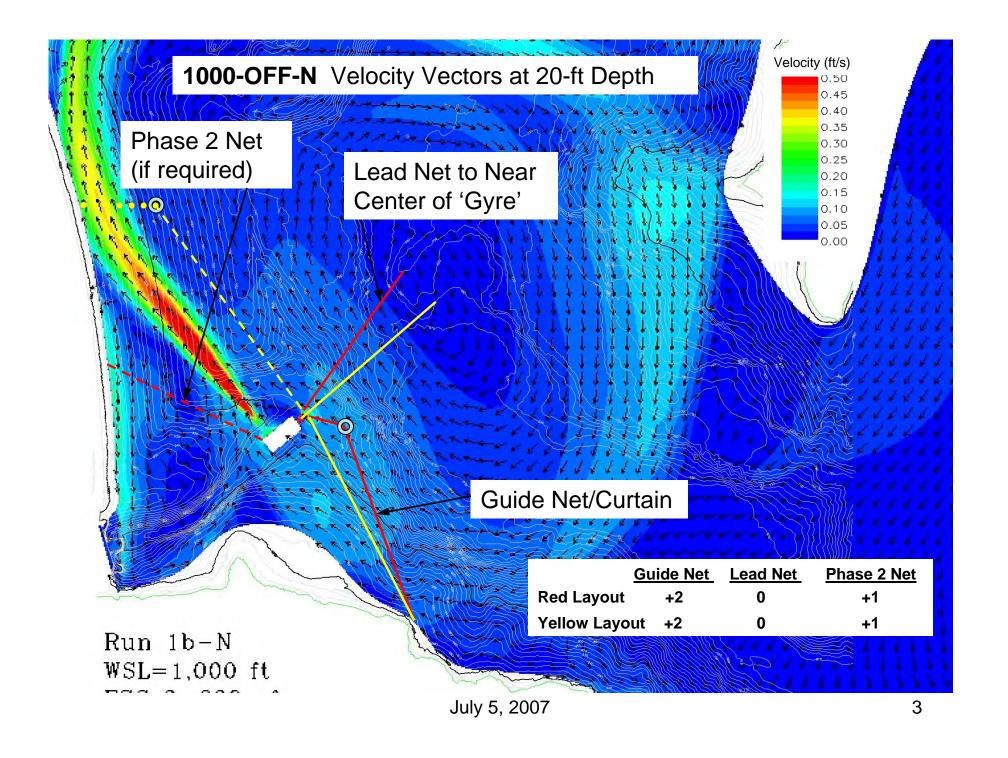
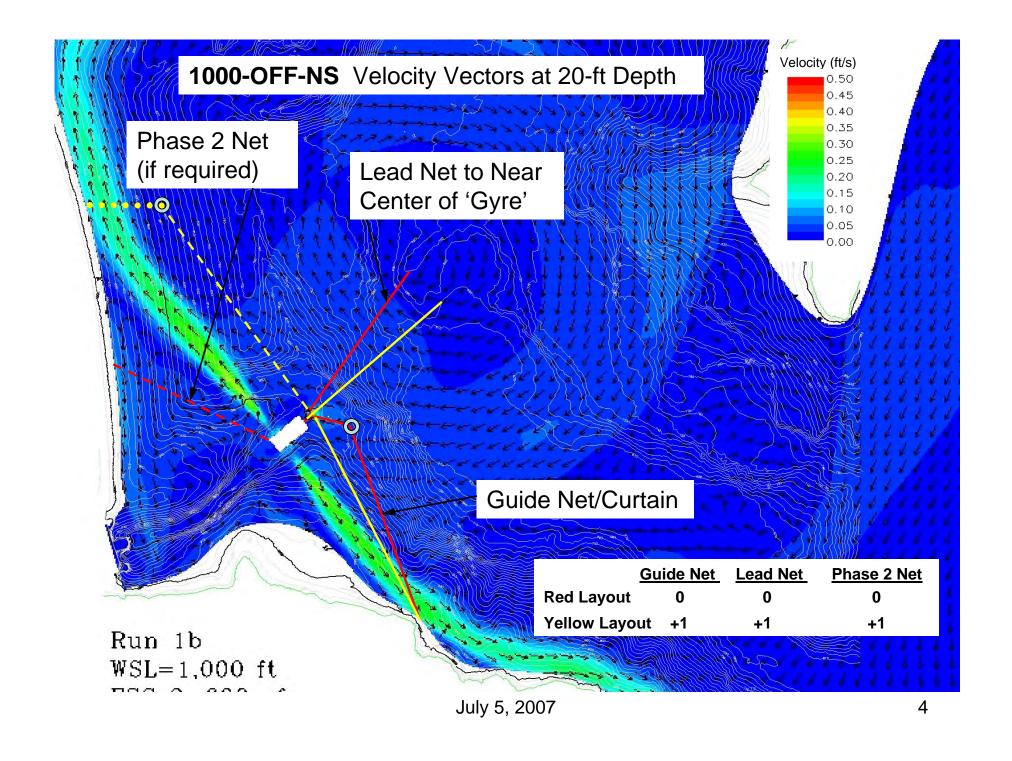
SWIFT FSC GUIDE NET ARRANGEMENTS

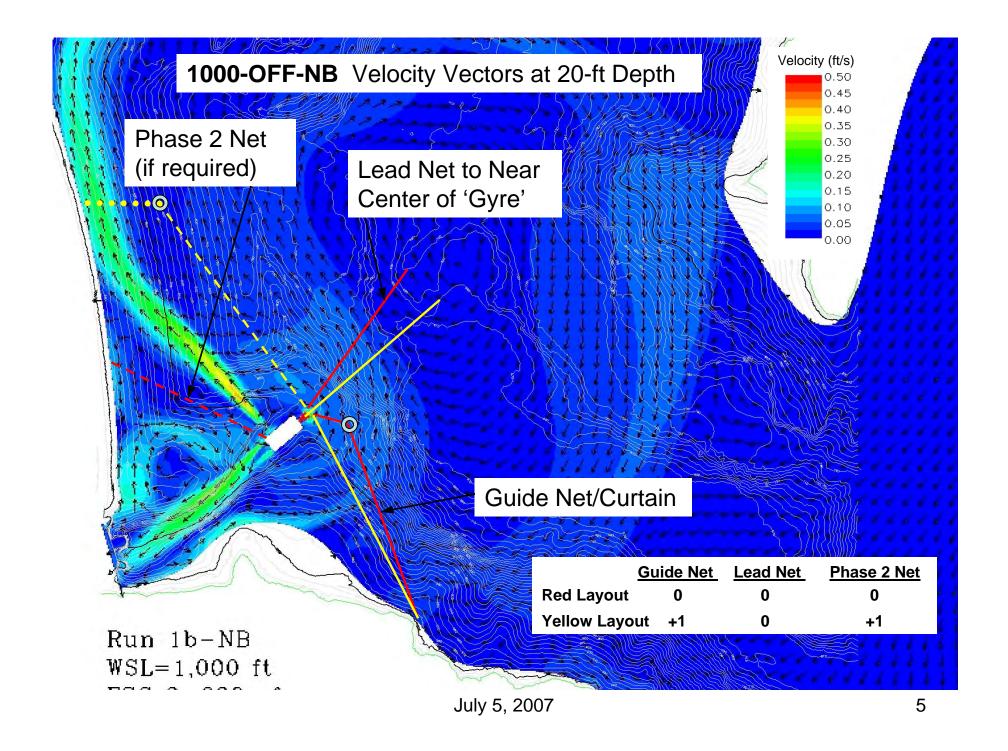
- The guide net arrangement consists of three major net components
 - Guide Net from FSC to south bank
 - Lead Net from FSC to near the center of the 'gyre' in reservoir
 - Phase 2 Net from FSC to dam (not proposed with initial installation)
- Two layouts are considered for each component
- The net arrangements are overlaid on the previous CFD model results and the reservoir bathymetry to assess the interaction between the net layout and the reservoir velocity vectors for 12 different reservoir level and operating condition combinations. The CFD backgrounds are from previous CFD runs and do not include any influence of the nets being present in the flow fields.
- Value judgments are made for each net component layout relative to the near field velocity vector direction

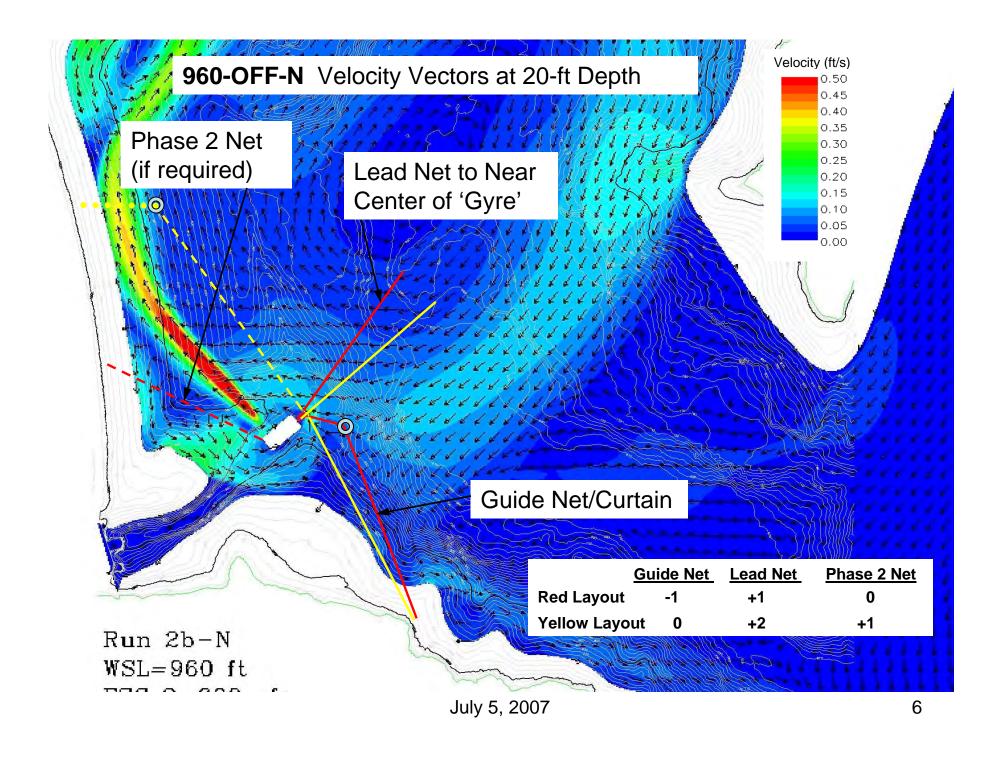
Rating System for Net/Velocity Vector Interaction

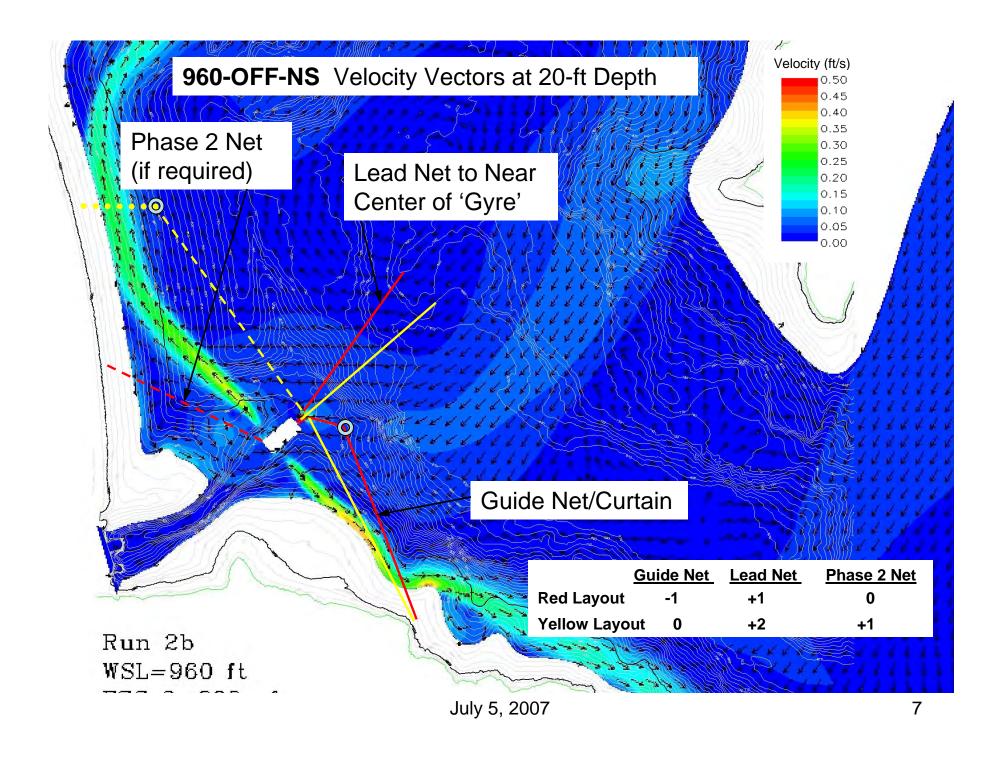


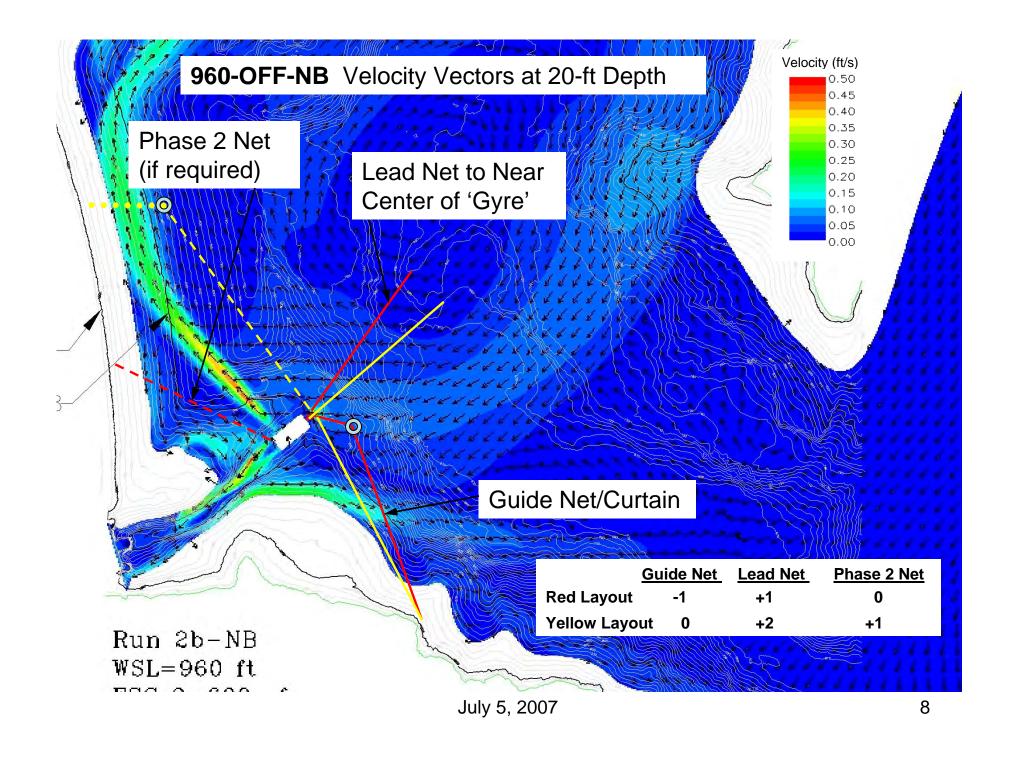


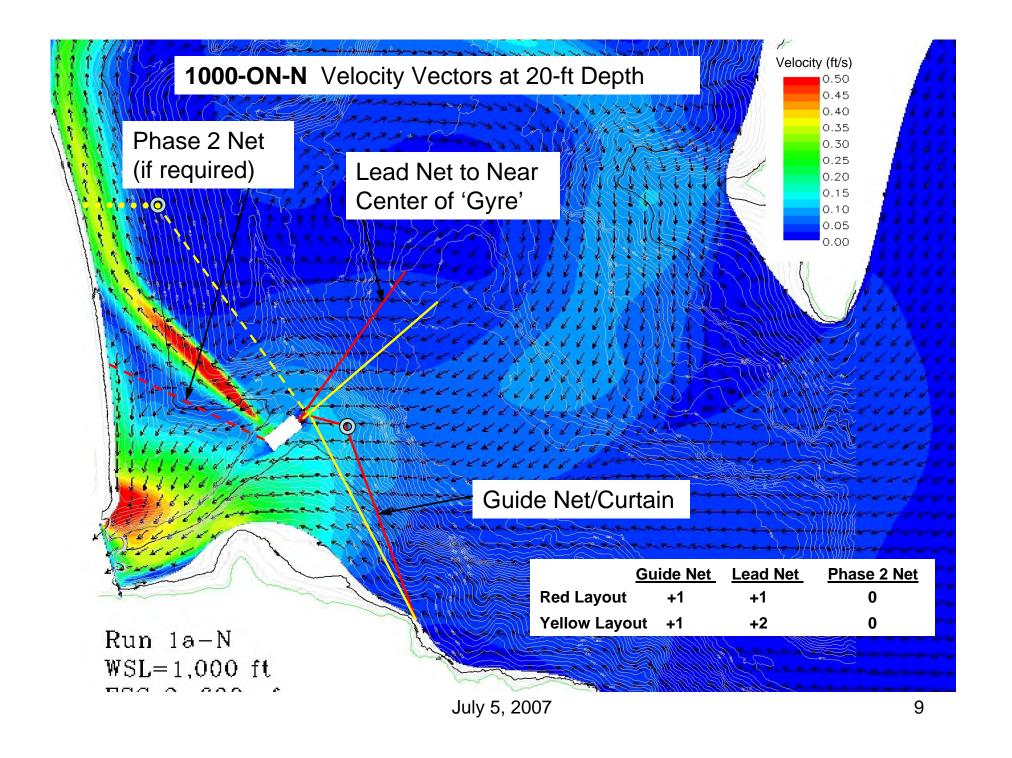


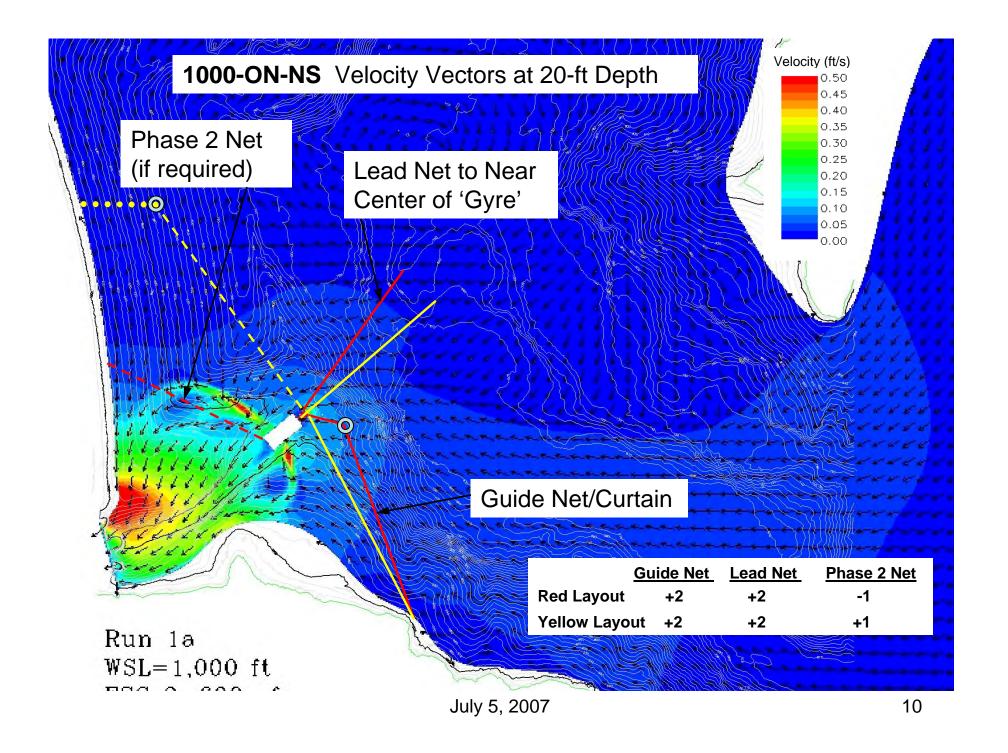


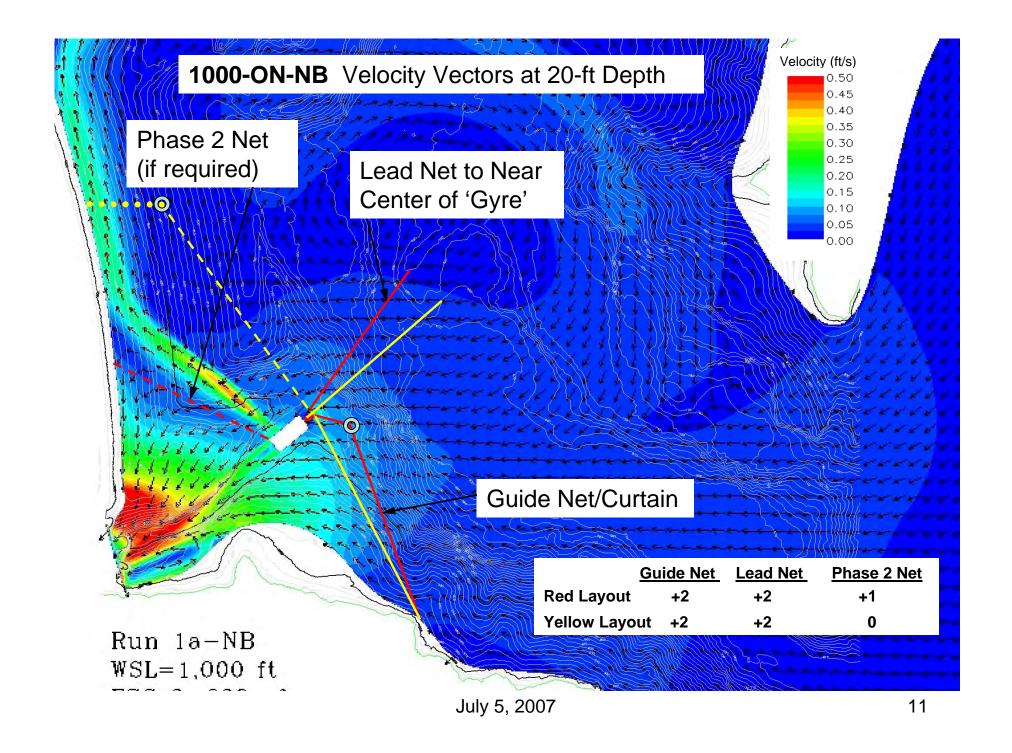


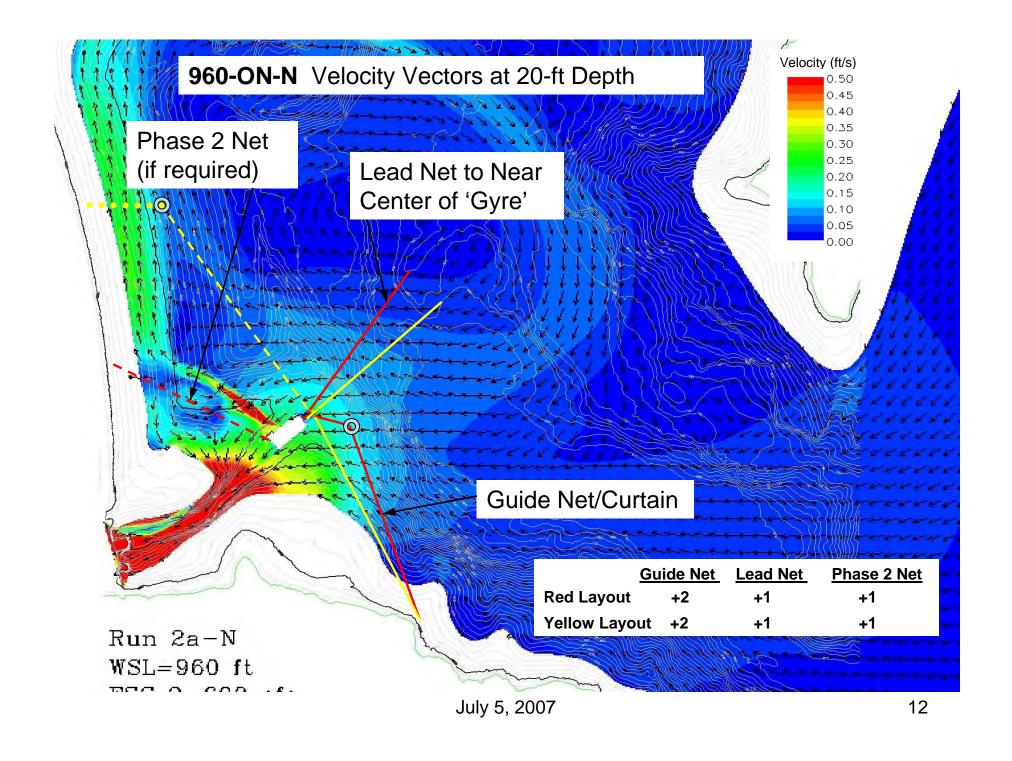


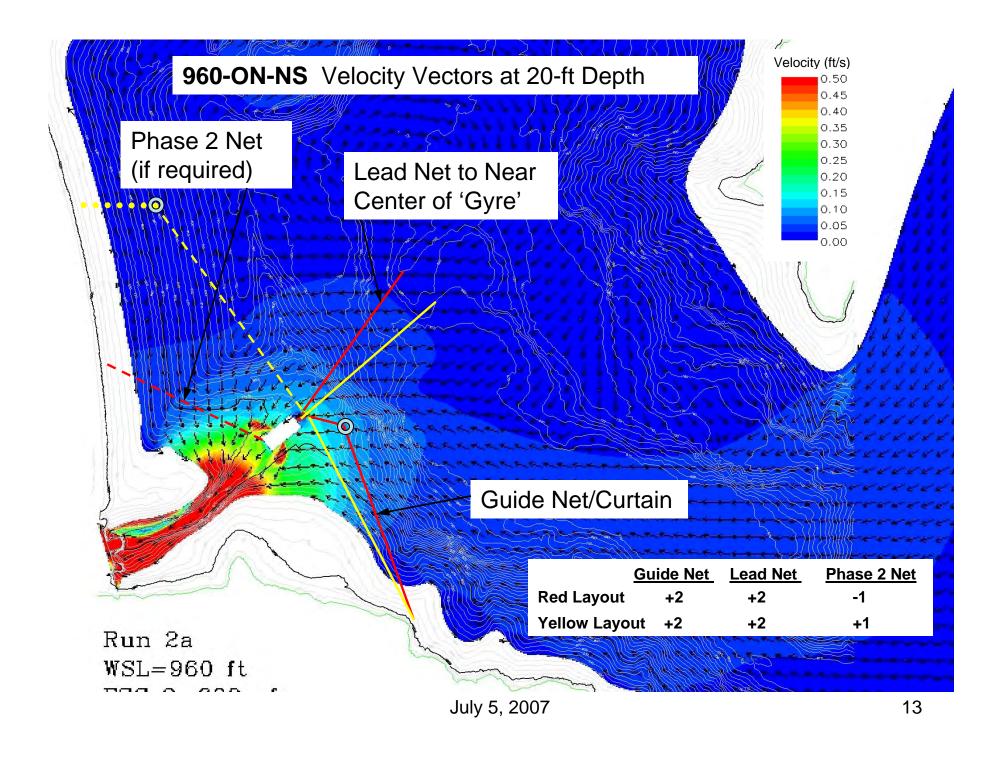


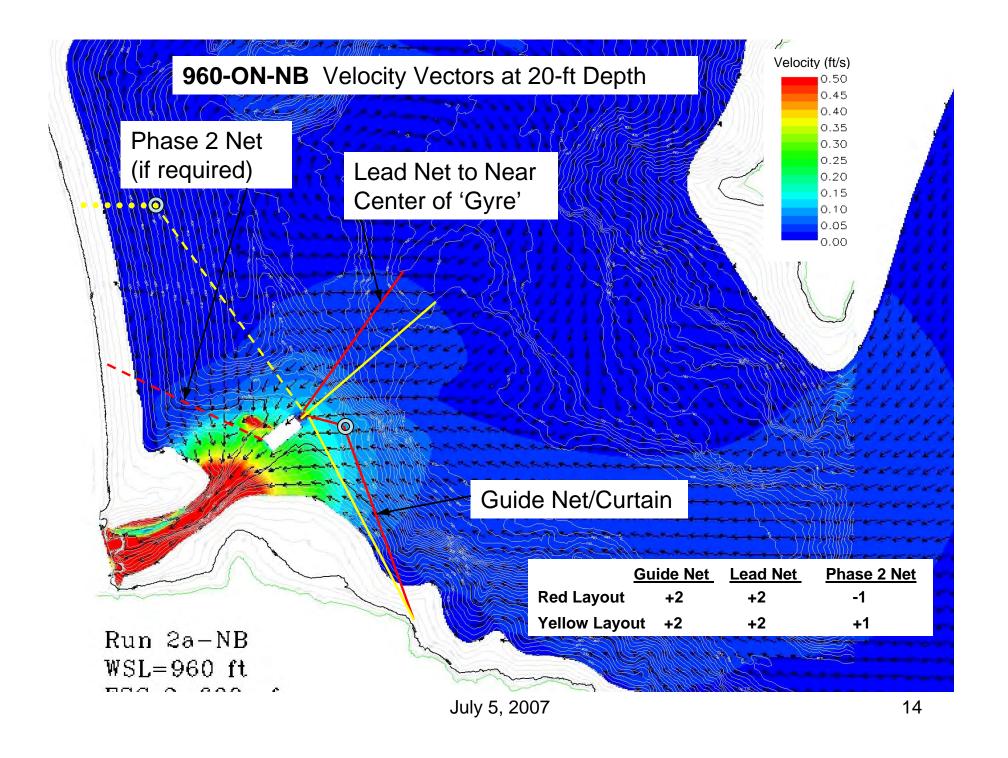


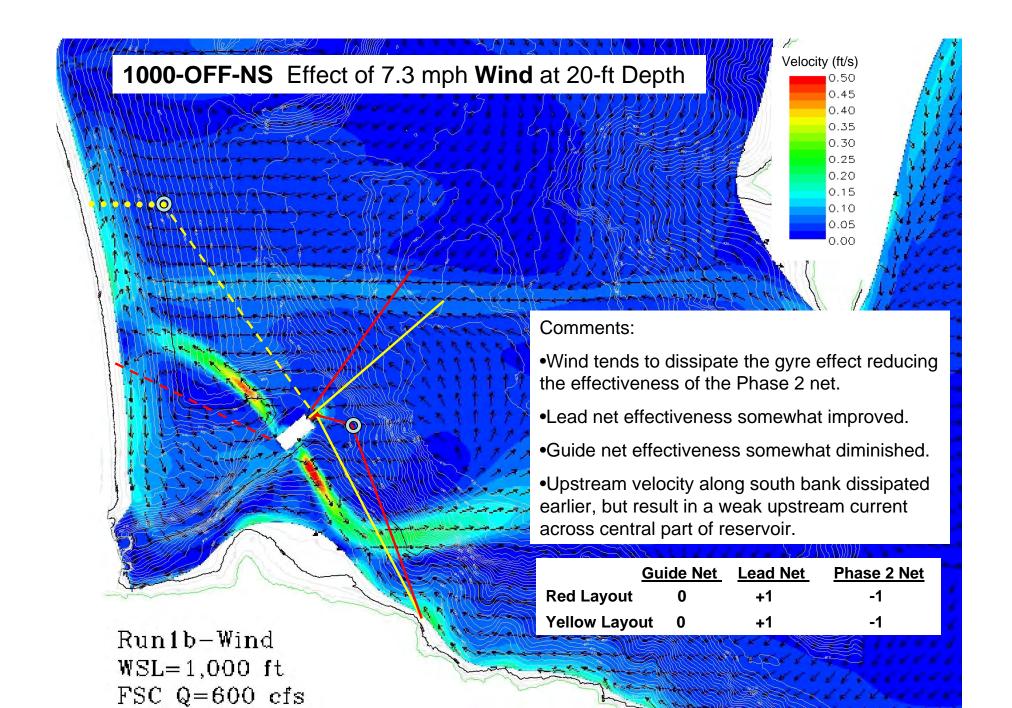












P/H Q=0 cfs

Summary Table of Interaction Values Red Net Layouts

Scenario	Guide Net	Lead Net	Phase 1 Total	Phase 2 Net	Phase 2 Total	Comments
1000-Off-N	+2	0	+2	+1	+3	Phase 2 Net Leads to Gyre
1000-Off-NS	0	0	0	0	0	Upstream Current on South Bank
1000-Off-NS (with wind)	0	+1	+1	-1	0	Wind Diminishes Strength of Gyre and Upstream Current on South Bank
1000-Off-NB	0	0	0	0	0	No Vectors Lead to FSC
960-Off-N	-1	+1	0	0	0	South Guide Net Vectors Lead Away
960-Off-NS	-1	+1	0	0	0	Upstream Current on South Bank
960-Off-NB	-1	+1	0	0	0	Guide Net Problems Reduced
1000-On-N	+1	+1	+2	0	+2	Phase 2 Net Leads to Gyre
1000-On-NS	+2	+2	+4	-1	+3	High Phase 2 Net Loading
1000-On-NB	+2	+2	+4	+1	+5	Phase 2 Net Leads to Gyre
960-On-N	+2	+1	+3	+1	+4	Phase 2 Net Leads to Gyre
960-On-NS	+2	+2	+4	-1	+3	High Phase 2 Net Loading
960-On-NB	+2	+2	+4	-1	+3	High Phase 2 Net Loading

Summary Table of Interaction Values Yellow Net Layouts

Scenario	Guide Net	Lead Net	Phase 1 Total	Phase 2 Net	Phase 2 Total	Comments
1000-Off-N	+2	0	+2	+1	+3	Phase 2 Net Leads to Gyre (All P/H OFF Runs)
1000-Off-NS	+1	+1	+2	+1	+3	Upstream Current on South Bank
1000-Off-NS (with wind)	0	+1	+1	-1	0	Wind Diminishes Strength of Gyre and Upstream Current on South Bank
1000-Off-NB	+1	0	+1	+1	+2	Reverse Flow on Guide Net
960-Off-N	0	+2	+2	+1	+3	South Guide Net Vectors Lead Away
960-Off-NS	0	+2	+2	+1	+3	Upstream Current on South Bank
960-Off-NB	0	+2	+2	+1	+3	South Guide Net Vectors Lead Away
1000-On-N	+1	+2	+3	0	+3	Lack of Direction for Phase 2 Net Flow
1000-On-NS	+2	+2	+4	+1	+5	Generally Good Flow Conditions
1000-On-NB	+2	+2	+4	0	+4	Lack of Direction for Phase 2 Net Flow
960-On-N	+2	+1	+3	+1	+4	Phase 2 Net Leads to Gyre
960-On-NS	+2	+2	+4	+1	+5	Generally Good Flow Conditions
960-On-NB	+2	+2	+4	+1	+5	Generally Good Flow Conditions