Ops Planning for Time-Of-Flight

All items below

- concern installation of the new full TOF system.
- are 'Priority 3' (important task leading to improved quality of physics production/analysis) if not `Priority 4'....

Tray Installation

Need 2 fixtures:

TPC Support (needed before Run-10), mostly designed (scheblein) Tray Insertion (needed before Run-9), Llope will design, Schebs consultant? Padrazo/Asselta *et al.* - consultants re: removal of CTB & CTB cabling Tray installation and connections by TOF Group STSG needed to clear physical obstructions and replace after installation

Water System

to be provided by STSG (historically Lebedev and Soja). Requirements are "light" existing 'taps' only on East. Run-8 likely to include trays on East and West full system needed before Run-9

Gas System

Leonid et al. will complete system this fall, and determine what STSG support, if any, is needed. Identify location of East and West gas mixing panels (before Run-9)

LV/HV & Racks

Installation of Supplies & LV cables by Padrazo/Asselta *et al.* Cable is already on-site. HV box location to be defined Sept 5-6, 2007 (Vahe, Danny,) Installation of HV boxes by STSG (need 3 before Run-8, the remaining seven before Run-9)



W.J. Llope (presented by J. Schambach) STAR Operations Workshop BNL August 21, 2007

Plan by Shutdown:	
Run-8:	~5 Trays
Run-9:	~85 Trays
Run-10:	120 Trays

Installation Fixtures

TPC support fixture Tray insertion fixture

TPC S dr dr support ne

(needed to hold TPC when support arm removed for trays at 3 and 9 o'clock) (support tray weight, line up an external TPC rail to slide trays into STAR)

TPC Support Fixture

draft design exists (J. Scheblein)... needed during shutdown before run-10 when tray "120" goes in...

Tray Insertion Fixture

TPC rails exist at Rice design light structure, mounts to TPC end-ring holds tray on perfect plane to slide neatly into \Leftrightarrow 6-10 positions available, then move fixture push to make available in ~5 months







HV Dist. Boxes





Water System -- copper water loop running between TINO & TDIG



Need to repeat w/ fully configured TDIG-E's \rightarrow improved $\Delta T \rightarrow$ define N(trays) daisy-chained Water test set-ups exist at both Rice and UT

Gas System (PNPI, Russia, BNL Contract #123090)

recirculate & remove O_2 and H_20 reviewed April 2006

new control PC in place new mixing panel in place 1" SS tubing to connect to \Rightarrow located (not yet connected)

to do:

define distribution network on detector (4 trays in series) define "splitter" locations complete connections special bubbler and oil vapor filter install windows control code





new gas panel