From butler@fnal.gov Wed Jan 21 19:13:22 2004
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Subject: Working Group on Requirements in the Controls Area

Hi people,

        You have been nominated by your department head to participate in a
working group on Controls.I assume that most of you have at least heard
something about this assignment. The charge is given below. Note that it is
quite broad and includes embedded systems as well as traditional "control
system" issues. The goal is to write a report on requirements for the next
few years in this area.

        To carry this charge out, we will need to meet weekly. So our first
task is to find a time for a meeting that most of you have free. The proposal
is to have the meeting sometime on Wednesdays. Could you each please let me
know when you are available on Wednesday? If that doesn't work we'll try
something else.

        If you want to discuss the working group, please feel free to call me
or send me EMAIL.

Joel Butler

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                Working Group on Requirements in the Controls Area

In the next few years, the Beams Division has ahead of it what has been
described as a "complex campaign of operations, maintenance, upgrades, R&D,
and studies." The purpose of the Controls System Requirements Working Group
is to understand the capabilities and capacity required in the controls
area to support this ambitious effort

The questions/issues that should be addressed include, but are not limited to,
the following:
        > What applications are currently being run by the departments and
          how are they expected to evolve?
        > What new applications and capabilities will be developed and what
          demands for resources will they place on the system?
        > How will new applications be developed and maintained? How will
          quality assurance be achieved?
        > What core services exist in the current system and how will they
          evolve?
        > What is missing and what new core services and facilities are
          needed? How will they be supported and maintained? How will quality

assurance be achieved?
> How will migration from obsolete computing platforms be achieved? What is the size of the effort? What resources are required to carry it out?
> How are embedded systems and their associated software supported and maintained? How will these systems develop? How are these devices integrated with operations? How is quality assurance achieved?
> How will migration from obsolete controls systems hardware be achieved? What is the size of the effort? What resources are required to carry it out?
> What specialized devices (scopes, analyzers, etc.) exist? How are they and their associated software supported? How are these integrated into operations? How will these systems develop? How are these devices integrated with operations? How is quality assurance achieved?

Other questions will undoubtedly arise as we proceed. The goal of this effort is to produce a requirements document that will guide the development and evolution of the control system. We have been asked by Division Management to have an interim report by the middle of January and a final report should be delivered by March.