

NEW PROJECT REQUEST FORM ES&H PROJECTS

For Data Reference Use Only

a. Facility Code

b. ADS Number

Activity Data Sheet (ADS) Identification Section

3. ADS Title: **Collider-Accelerator Steel-Yard Paving**

3a. ADS Area: (Select 1 only) ES&H Equally ES&H and Infrastructure or Program

4. Data Sheet Status Code: (Select 1 only) Open Closed Hold Discontinued Void

13. Contractor Division	Collider Accelerator	17. DOE Manager Peter Kelley
14. Contr. Department	Collider Accelerator	18. DOE Phone 631-344-5784
15. Contractor Manager	Joel Scott	Champion Email jscott@bnl.gov
16. Contractor Phone	631-344-7520	Champion Pager 631-453-5905

ES&H ADS Functional Areas

20. ES&H Functional Area Breakdown (Attach additional pages if necessary)

See Web Site: <http://epweb.pe.bnl.gov/infrastructure/projects/projects.htm> for listing

Functional Area	Sub-Area	% Total Cost
CW	01	100%

Percentage of costs attributable to: 21. Training: _____ 22. Maintenance

ADS Type Section

23. ADS Type: (Select 1 only) Core Compliance Improvement

24. Drivers (Attach additional pages as necessary)

See Web Site: <http://epweb.pe.bnl.gov/infrastructure/projects/projects.htm> for listing

Driver Type	Driver Code	Primary? (Just one)	Driver Title
Law	CWA		Clean Water Act
Order	DOE 5480.04		Environmental Protection, Safety, and Health Protection
Law	Article 12	x	Suffolk County Article 12

25. Compliance Comment

BNL SBMS Subject area on Outdoor Storage areas

Suffolk County Article 12 Compliance

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26. ADS Description/Objective (Attach additional pages as necessary)

Provide a description of the activity. Include sufficient detail to allow a reader not previously knowledgeable of the activity to understand the activity's scope and what it is intended to accomplish.

The AGS Activated Steel Yard is used to store various lengths and sizes of activated steel for shielding of new and existing experiments. This ADS will pave the 210 ft. by 270 ft. storage yard and provide curbs and drainage sumps to collect any debris. Currently the steel is stored outside on the ground and although there is no evidence from sampling the soil, there is the possibility of activated rust runoff entering the storm sewer systems. Paving the area and providing sumps for drainage designed to trap particulates will prevent this.

27. ADS Appraisal/Justification (Attach additional pages as necessary)

Describe the risks/impact of not implementing or not continuing this activity and opportunities related to this activity. Discuss risks/benefits, if applicable, for Public Safety & Health, Site Personnel Safety & Health, Compliance, Mission Impact, Cost-effective Risk Management, and Environmental Impact. Describe any other significant impacts or considerations (e.g., cost avoidances, payback periods, etc.)

Benefit

1. Compliance with BNL SBMS subject area
2. Compliance with Suffolk County Article 12
3. Prevention of soil and groundwater contamination

Risk/Vulnerability

1. Non-compliance to SBMS subject area, and Article 12
2. Potential soil and ground water contamination
3. Loss confidence of public/regulators

Mitigating Actions

1. Quarterly inspections of area.
 2. BNL ground water sampling plan.
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37. Resource Structure Code (RSC): *(Check One)*

- | | | | | | |
|-----|--|---|-----|--------|--------------------------------------|
| ___ | LIN | Line Item - Infrastructure | ___ | GPP/LL | GPP - Landlord (Site GPP Fund) |
| ___ | LIE | Line Item - ES&H | ___ | GPP/KA | GPP - High Energy Physics Specific |
| ___ | AIP/KA | AIP - High Energy Physics Specific | ___ | GPP/KB | GPP - Nuclear Physics Specific |
| ___ | AIP/KB | AIP - Nuclear Physics Specific | ___ | GPP/KC | GPP - Basic Energy Sciences Specific |
| ___ | AIP/KC | AIP - BES Specific (Former ARAM) | ___ | GPP/KP | GPP - OBER Specific |
| ___ | OPER | Operating Funds - Special Maintenance or ES&H Program Support | | | |
| ___ | OPER/XX Department / Division Operating Funds (xx - 2 Digit Dept / Div. Code) | | | | |

(Note: If the ADS is funded from an allocable cost pool, provide B&R makeup.)

42. Activity Cost Estimate (x \$1,000)

43. FTE Requirements

For departmental funded projects indicate cost expectations by FY. For all other projects place project total cost in the unfunded field.

Fiscal Year	Estimated Implementation Costs in \$1,000				% ESH	FTEs (to two decimals)	
	Operating Expense (OE)	Capital Equipment (CE)	General Plant Project (GPP)	Line Item Project (LIP)		Federal	Contractor
Prior Year (PY) <u>1999</u>							
Current Year (CY) <u>2000</u>							
Budget Year (BY) <u>2001</u>							
BY + 1 <u>2002</u>							
BY + 2 <u>2003</u>							
BY + 3 <u>2004</u>			700K		100		
BY + 4 <u>2005</u>							
Unfunded* <u>2006</u>							

* For Compliance activities with costs beyond BY + 4, enter total estimated cost to complete in the Unfunded row.

45. Cost Estimate Notes: (Provide information on estimate, source and date of estimate, if from an ILR give number, and whether or not engineering, project management, contingency and burden is included.)

Cost estimate from FES engineering group for \$700K. Cost estimate includes burden and 15% contingency.

46.

Minimum Required Information for ESH Activity Data Sheets

The fields which have not been redlined on the ADS above are mandatory fields which must be completed following the instructions below. If information is known and you wish to utilize a redlined field, please input your data for transcription to the main database.

3. Provide a concise and descriptive project title.
- 3a. Indicate that this is an ESH ADS
13. Provide two letter Department/Division Code.
15. Provide name of the project champion for the activity.
16. Phone number of project champion.
17. Provide name of DOE-BHG counterpart manager for the activity.
18. Phone number of DOE-BHG counterpart.
20. Functional area addressed and percentage of each if more than one (i.e. radiation protection, industrial safety, environmental protection, etc.). Please note that percentages of functional areas addressed must equal 100%.
23. Indicate ADS type (Core, Compliance, Improvement, Other).
24. If compliance is chosen, a regulatory driver or DOE Order must be provided. If choice is not available in the draw down list, select other and provide specific driver in #25.
25. If compliance, discuss nature of current non-compliance briefly.
26. This section should be introduced by a summary of the proposed action and the issue being addressed not to exceed six typed lines. The summary should then be followed by a detailed description of the proposed activity and the issues to be addressed.
27. This section should be introduced by bullets which succinctly discuss the benefits of completing the proposed activity. This should also not exceed six typed lines. Following the bullets should be a discussion of the current risks, how the proposal will alleviate the risk and a separate discussion of ways that the risk will be mitigated until the proposal is funded, provided mitigative measures can be employed.
37. Provide the anticipated funding source for this activity from the table provided.
44. Insert into the table the anticipated costs associated with the project and the appropriate column related to where funding would be anticipated from. Program funded activities

(i.e. KA, KB, KC) should be placed into the GPP column. All operating funded activities including department/division supported and special maintenance activities should be placed in the OE column. Any project that is currently unfunded pending a decision to be made outside of your organization should be placed in the year 2005 at this time.

45. A statement or supporting information should be provided on how the estimate was arrived at. It should also be indicated as to whether the activity could be phase funded over two or more years or if circumstances require completion within the same fiscal year.

Cost Estimate For Paving AGS Steel Yard

1. Steel Yard dimensions 210 by 270 ft. = 56,700 sqft.
@ 8" base = 37,800 cuft
= 1400 cuyd.
@ \$250/cuyd. = \$ 350,000
 2. Drainage to include 3 sumps designed to trap sediment
And piping to existing storm sewers. = \$30,000 ea. X3= \$90,000.
 3. Grading to include soil removal as needed= \$15,000
 4. 6" curb 1000ft @ \$12/ft. = \$18,000.
- Total = \$473,000.

Engineering @ 15% = \$70,952.

Mark up @ 5% = \$23,650

Insp. @ 55= \$23,650.

Overhead @ 8% = \$44,840.

Contingency @ 15% = \$70,952.

TOTAL= \$707,044.