

# **FUNCTIONAL PROPOSAL**

FOR

**DERBY LINE  
ENTERPRISE COMPUTING  
FACILITIES**

**PRIVILEGED SYSTEM  
INFORMATION**



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## REVISION HISTORY

[illegible]

# Vermont State Brain Barn Program Planning Document

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## Executive Summary

The Derby Line Facility is the first step in the Vermont economic redevelopment process known as the “Brain Barn” project

### 1 Derby

#### 1.1 Butterfield Factory Facility

#### 1.2 Public Private Partnership International Data Center

The following are the overall facility advantages

##### 1.2.1 Power

The Data Center will be able to offer ultra competitive pricing due to use of Canadian Electrical power at \$0.2 per KWH as opposed to \$0.13 cost in US.

Ultimate UPS

##### 1.2.2 Bandwidth

- Northeast Kingdom Northlink supplied bandwidth on the US Side and
- Bell Canada Sympatico supplied bandwidth on the Canadian side

##### 1.2.3 Cooling

Tomofobia river can and will be used as the cooling element within the facility.

##### 1.2.4 Physical

Brick building vaults in geologically stable ground (??) above mean sea level. Due to international nature of facility the ongoing tradition of strict and stringent physical security must be maintained. Location while convenient to US & Canadian interstate highway system is undistinguished, private and out of the way. Helicopter landing facility is available across the street, airports are in proximity.

##### 1.2.5 Facility Classification

The facility shall be divided into two separate Data Facilities, the Unclassified and the Classified Data facilities. It is our intention that the Unclassified Facility contain but not be limited to the following enterprises:

- Vermont Virtual
- Canonical Support US
- Canadian American Data Facility

Based on this particular mix of advantages the following activities are contemplated.

### 1.3 Enterprise Activities

#### 1.3.1 REDONA Lab and Factory Facility

More information about the Renewable Energy Development of North America, Inc. ([REDONA](#)) is available by clicking on the acronym at the beginning of the line.

##### 1.3.1.1 Pellet Facility

Rock Island Pellets subsidiary

To enable local communities and businesses to convert their own locally based biomass fuel sources into pellets. This will allow users to produce their own heat and electricity as well as allow them to sell pellets to others, and will keep a larger portion of the region's energy dollars in the area. In fact, the Wood Pellet Association of Canada estimates that 70% of every dollar spent on biomass stays in the local community (as compared to 10% of every dollar spent on oil).

REDONA business plans require extreme facility in the areas of data communication both surface and airborne as well as the development of SCADA (System Control And Data Acquisition) systems

#### 1.3.2 Hydro facility

#### 1.3.3 Canadian American Data Facility

##### 1.3.3.1 Data Storage Center

##### 1.3.3.2 Multimedia VT Buffered Gateway

##### 1.3.3.3 International Distribution Facility

#### 1.3.4 Canonical US

Due to the requirement for US made content in GSA the acquisition process, Ubuntu services to GSA clients sold by Canonical would be serviced out to the Derby Line facility. This would have convenient electronic and special proximity to the World Wide Headquarters for Ubuntu support on Rue Rene Levec in Montreal. Contemplated activities could include but not be limited to the following:

##### 1.3.4.1 Offices

Program management and research offices

Veterans programs would be managed out of this office.

#### 1.3.4.2 Data Facilities

##### Launchpad facility

Launchpad is a version control and software development product

#### 1.3.4.3 Call Center

Veterans staffed and managed.

#### 1.3.4.4 Classrooms

Educational Facility BOSI VT

Sugar

Chautauqua

REDONA Smartgrid Data Research Facilities

#### 1.3.5 Vermont Virtual

##### Commercial Hosting

Features of Virtual Vermont would include

A seal of Vermont origin, guaranteeing “organic freshness” to your bits...

Promise that Vermonters were employed in producing and operating this facility

#### 1.4 Government Activities

##### 1.4.1 Local and State Activities

###### 1.4.1.1 Jobs Training

##### 1.4.2 Federal Activities

###### 1.4.2.1 Classified Area

Please see Classified Section of this report for additional information

This planning guide can say very little about the Classified activities at the Butterfield PP IDC, after all these are classified activities.

###### 1.4.2.1.1 Immigration and Naturalization Site

Classified U.S. Federal Government Activities

###### 1.4.2.1.2 Border Patrol

Classified U.S. Federal Government Activities

1.4.2.1.3 Continuity of Operations Facilities  
Classified U.S. Federal Government Activities  
Classified Commercial Activities

1.4.2.1.4 REDONA Data Research Facilities  
Classified Research Activities

1.4.2.1.5 Canadian Customs, Immigration and Naturalization  
Classified Canadian and Commonwealth Government Activities