David Potchak – Tentative Presentation Outline DEA Clandestine Laboratory Training CenterConsultant: Dr. Bahnfleth

03/09/07 Date:

Section	Pages
Self and Project Introduction:	1
Presentation Overview:	1
General Building Information (use, size, location): - Kind of work performed in labs - Physical and academic training	2
Existing Mechanical Design: - Central cooling and heating plants - 100% OA AHU serving labs - Economizer capable service to classrooms and offices - CO ₂ -based DCV	4
Mechanical Redesign: - Chilled water as preheat O Parallel vs. Series - Membrane heat exchanger for lab exhaust - Enthalpy wheel for classrooms and offices O Controls for enthalpy wheel and economizer mode - Energy and cost analysis of final design	14
Electrical Breadth: - Integration of new equipment	2
Structural Breadth: - Integration of new equipment	2
Conclusions: - Revisit energy and cost analysis of all design changes	2
Acknowledgements:	1
Questions:	1