

SAND2012-4802C

HDR

BRIEFING



BRIEFING

- » Traditional Process
- » User Interviews
- » Mission
- » Drivers
- » Future Proofing
- » Existing Conditions Analysis
 - » Temperature Control
 - » Humidity Control
 - » Storage
- » Document Needs



- » Existing Documentation
- » Data Gathering
- » User Interviews
- » Goal Setting
- » Path Forward



- » Diagnostic Testing
- » Research
- » Epidemiological Surveillance
- » Vaccine Production / Drug Development
- » Training



MISSION

DRIVERS

- » Sustainability
- » Cost
- » Aesthetics
- » Functionality
- » Safety
- » Programme



EXISTING CONDITIONS

- Most Common Issues**
 - » Temperature Control
 - » Humidity Control
 - » Insufficient Storage
 - » Lack of Flexibility
 - » Electrical Capacity
 - » Materials & Finishes

REGULATORY COMPLIANCE

A composite image. The left side shows a man in a blue and white striped shirt and dark pants standing in a doorway of a yellow building, holding a blue ball. The right side shows a line of riot police in dark uniforms and helmets with shields, standing on a street. The image is used as a metaphor for the strict regulations and enforcement of compliance.

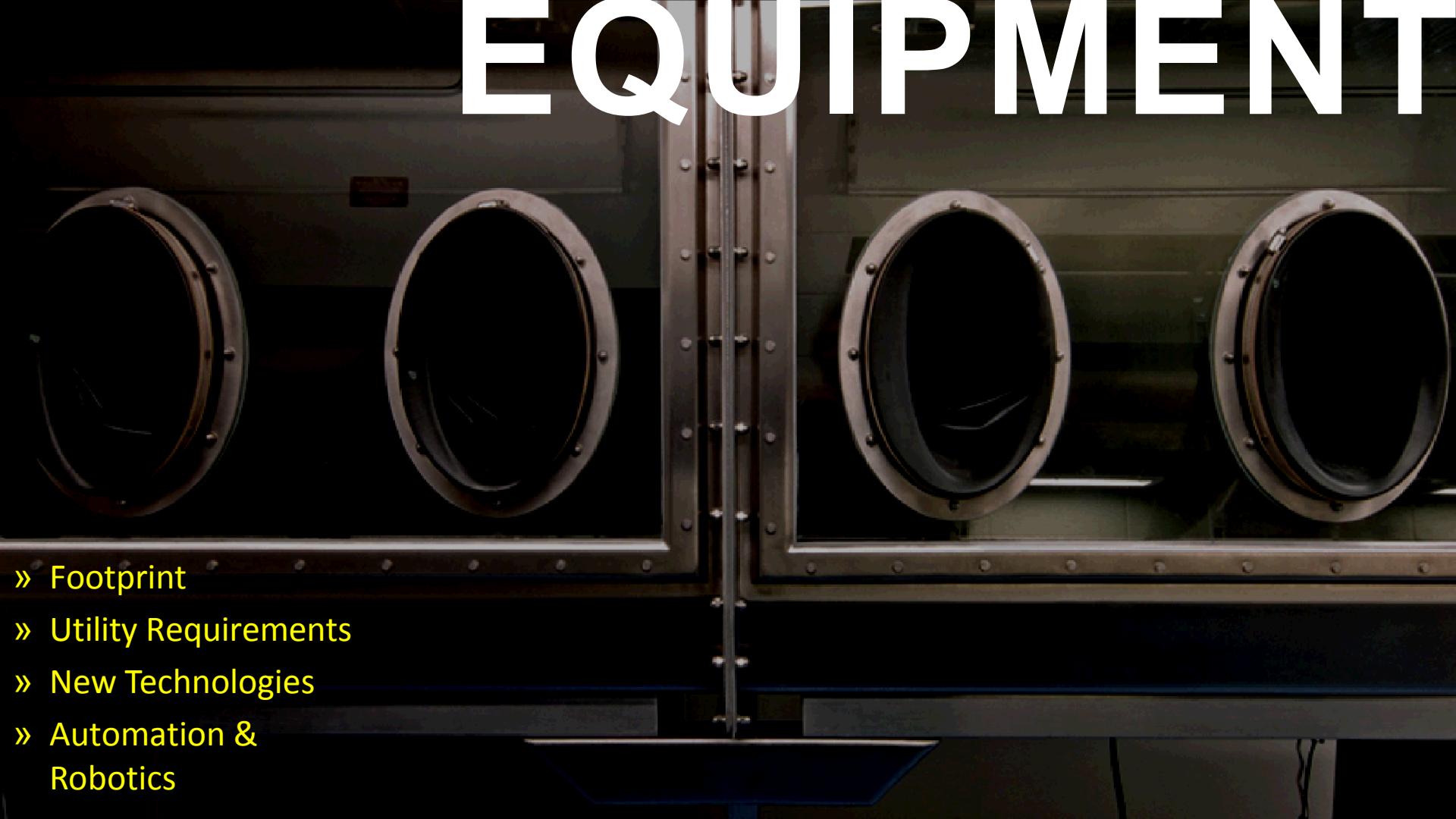
- » Building Codes
- » Biosafety Guidelines
- » Animal Welfare
Regulations



- » Laboratory Staff
- » Administrative Staff
- » Operations & Maintenance
- » Custodial
- » Animal Care

STAFFING

EQUIPMENT



- » Footprint
- » Utility Requirements
- » New Technologies
- » Automation & Robotics



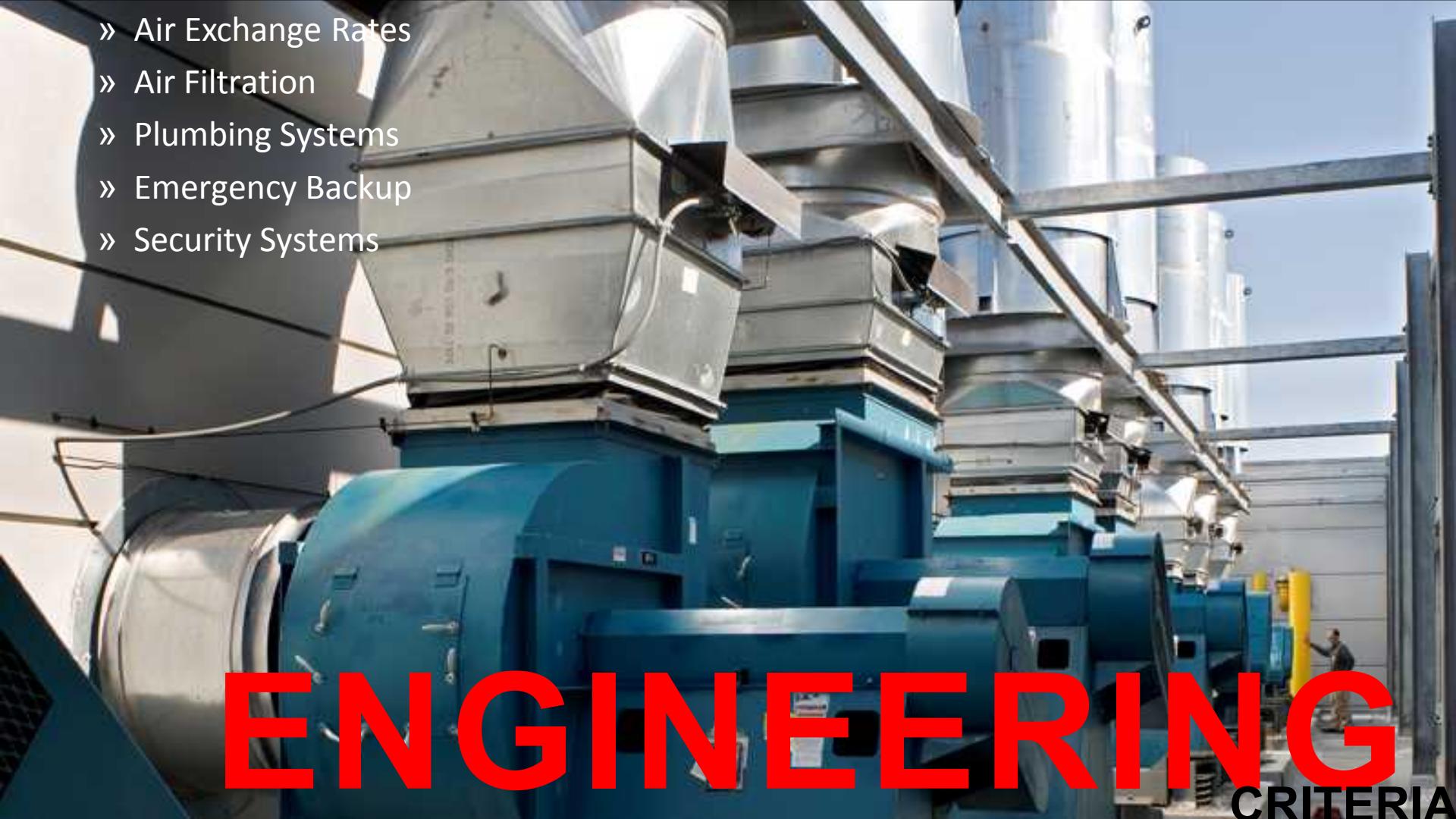
FLOW ANALYSIS

- » Personnel
- » Materials
- » Waste
- » Samples
- » Animals

OPERATIONAL CONSIDERATIONS



- » Redundancy
- » Reliability
- » Maintainability
- » Accessibility
- » Safety



» Air Exchange Rates
» Air Filtration
» Plumbing Systems
» Emergency Backup
» Security Systems

ENGINEERING

CRITERIA

ENVIRONMENT



- » Energy Efficiency
- » Recycled Content
- » Operational Efficiency
- » Regional Sensitivity
- » More with Less

SPACE APPROXIMATION



- » Laboratory
- » Laboratory Support
- » Offices
- » Amenity Space
- » Plant / Building Support

STRATEGY



- » Scope
- » Schedule
- » Budget



FUTURE PROOFING

- » Flexibility
- » Growth Strategy
- » Innovation
- » Emerging Disease Threats
- » Change?



SAND No. _____
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