

AMENDMENT TO THE RECORD OF DECISION

Unisys Corporation
Operable Unit Number 01: On-Site Remedial Program
State Superfund Project
Lake Success, Nassau County
Site No. 130045
January 2015



Prepared by
Division of Environmental Remediation
New York State Department of Environmental Conservation

- c) restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
 - d) prohibits agriculture or vegetable gardens on the controlled property; and
 - e) requires compliance with the Department approved Site Management Plan.
4. **Site Management Plan.** A site management plan is required, which includes the following:
- a) an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the institutional and/or engineering controls for all operable units of the site remain in place and effective.

Institutional Controls: Environmental Easement

- providing the Department access to the site and O&M records; and
- d) periodic certification - the remedial party or site owner must provide, on such periodic basis as established by the Department, certification of:
 - institutional and/or engineering controls in accordance with Part 375-1.8(h)(3);
 - compliance with the Public Water Supply Protection and Mitigation Program; and
 - compliance with the Department approved Site Management Plan.

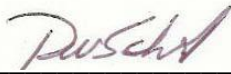
New York State Department of Health Acceptance

The NYSDOH concurs that the amendment to the remedy for this site is protective of human health.

Declaration

The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action to the extent practicable, and is cost effective. This remedy utilizes permanent solutions and alternative treatment or resource recovery technologies, to the maximum extent practicable, and satisfies the preference for remedies that reduce toxicity, mobility, or volume as a principal element.

Date



Robert W. Schick, P.E., Director
Division of Environmental Remediation

AMENDED RECORD OF DECISION

Unisys Corporation
Operable Unit No. 1: On-site Remedial Program
Lake Success, Nassau County
Site No. 130045
January 2015

SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has amended the Record of Decision (ROD) for Operable Unit No. 1 at the above referenced site. The disposal of hazardous wastes at this site, as more fully described in the original ROD document, has caused the contamination of various environmental media. This proposed amendment identifies new information which has led to this proposed modification to the remedy identified in the March 1997 ROD.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

SECTION 2: CITIZEN PARTICIPATION

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repositories:

Great Neck Public Library
Attn: Ms. Laura Weir
159 Bayview Avenue
Great Neck, NY 11023
Phone: 516-466-8055

Hillside Public Library
Attn: Ms. Charlene Noll
155 Lakeville Road
New Hyde Park, NY 11040
Phone: 516-355-7850

A public meeting was also conducted. At the meeting, the findings of the remedial investigation (RI) and the feasibility study (FS) were presented along with a summary of the proposed remedy. After the presentation, a question-and-answer period was held, during which verbal or written

96-12) on October 29, 1997. The order obligates the responsible party to develop and implement a remedial program in accordance with the Record of Decision for OU1.

SECTION 6: REMEDIAL ACTION OBJECTIVES

The goals selected for this Operable Unit are:

- Reduce, control or eliminate to the extent practicable the contamination present within the soils on the site.
- Provide for attainment of Standards, Criteria and Guidance (SCGs) for groundwater quality to the extent practicable.
- Mitigate the impacts of contaminated groundwater to the environment.
- Prevent to the extent possible, migration of contaminants from the sediments to the surface water and groundwater.

6.1: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water.

The groundwater contamination originates from the former plant site (OU1) and extends over one mile into the off-site area. Groundwater migration from OU1 has resulted in a significant off-site groundwater plume. The groundwater flow direction is to the northwest. The primary site-related contaminants of concern (COCs) for the groundwater include: 1,2 DCE, TCE, PCE, and Freon 113. The groundwater plume originating from the near

7.3: Summary of Changes to the Original OU1 Remedy

1. Modification to the original pumping rate of 1,800 gpm identified in the Original ROD based on the design evaluation. The current system was designed to operate at 730 gpm.
2. An active sub-slab depressurization system (SSDS) was installed at two buildings and a passive SSDS is in place for another building as a result of the October 2006 Vapor Intrusion Legacy effort.
3. Environmental Easement. Imposition of an institutional control in the form of an environmental easement for the controlled property that:
 - requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);
 - allows the use and development of the controlled property for commercial use with the exception of the area of existing soccer fields for which the use is restricted residential (which allows for active recreation), as defined by Part 375-1.8(g), although land use is subject to local zoning laws;
 - restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH;
 - prohibits agriculture or vegetable gardens on the controlled property; and
 -

- a provision for evaluation of the potential for soil vapor intrusion for any new buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion;
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

b) a Monitoring Plan to assess the performance and effectiveness of all operable units of the remedy. The plan includes, but may not be limited to:

- monitoring of the groundwater to assess the performance and effectiveness of the remedy;
- monitoring of the groundwater at irrigation wells that are or that become impacted by site-related groundwater contamination; and
- a schedule of monitoring and frequency of submittals to the Department.

c) an Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. The plan includes, but is not limited to:

- compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting;
- maintaining site access controls and Department notification;
- providing the Department access to the site and O&M records; and

d) periodic certification - the remedial party or site owner must provide, on such periodic basis as established by the Department, certification of:

- institutional and/or engineering controls in accordance with Part 375-1.8(h)(3);
- compliance with the Public Water Supply Protection and Mitigation Program; and
- compliance with the Department approved Site Management Plan.

RESPONSIVENESS SUMMARY

**Unisys Corporation Site
Operable Unit No. 01: On-Site Remedial Program
State Superfund Project
Lake Success, Nassau County, New York
Site No. 130045**

The Proposed Amendment to the Record of Decision (PAROD) for the Unisys Corporation site was prepared by the New York State Department of Environmental Conservation (the Department) in consultation with the New York State Department of Health (NYSDOH) and was issued to the document repositories on June 13, 2014. The PAROD outlined the remedial measure proposed for the contaminated groundwater at the Unisys Corporation site.

The release of the PAROD was announced by sending a notice to the public contact list, informing the public of the opportunity to comment on the proposed remedy.

A public meeting was held on June 26, 2014, which included a presentation of the remedial investigation feasibility study (RI/FS) for the Unisys Corporation site as well as a discussion of the proposed remedy. The meeting provided an opportunity for citizens to discuss their concerns, ask questions and comment on the proposed remedy. These comments have become part of the Administrative Record for this site. The public comment period for the PAROD ended on July 14, 2014.

This responsiveness summary responds to all questions and comments raised during the public comment period. The following are the comments received, with the Department's responses:

COMMENT 1: How was 120 gallons per minute (gpm) chosen as the required increase for pumping for the new well for OU-1?

RESPONSE 1: Hydrogeologic and engineering evaluations determined that the existing system was

easement be placed on the entire site, including this area which will further assure this remedy remains protective of public health and environment.

COMMENT 3: Who is the new owner of the site?

RESPONSE 3: Marcus Avenue Unit One Nominee LLC and 1111 Marcus Ave Unit 2 Owner, LLC are identified as the current owners of the site.

COMMENT 4: What assurance do we have that Lockheed Martin will continue to pay for this remedy? Will they put the required environmental easements on the property? What happens if Lockheed Martin goes bankrupt?

RESPONSE 4: The NYSDEC and the Lockheed Martin Corporation entered into an Order on Consent in 1997 for the implementation of the 19xx OU-1 ROD (the 1997 Order). The 1997 Order will cover the implementation of the OU-1 Amended ROD. Lockheed Martin submitted comments supporting the proposed amended OU-1. The Department anticipates that the current owners of the site will place the Environmental Easement required by the OU1 Amended ROD on the property which will ensure compliance with the site management plan.

COMMENT 5: What happens if there is a natural disaster? Will the remediation systems keep working?

RESPONSE 5: The remedial system may be shut down during a natural disaster. However, such a shutdown is expected to be of relatively short duration and as such is not expected to have a significant impact on the overall performance delivered by these systems.

COMMENT 6: What was the extent of the indoor air sampling and was the sampling the same in both the east and west sides of the building?

RESPONSE 6: Indoor air samples were collected from sampling locations inside the former Unisys facility, LA Fitness, powerhouse and garage buildings. Sampling was conducted in accordance with NYSDOH guidance.

COMMENT 7: Is the SSDS operating in the entire building?

RESPONSE 7: An active SSDS system is operating inside the former main manufacturing building and the garage building. A passive system is operating at the LA Fitness building.

COMMENT 8: How is the effluent air from an air stripper treated? What concentration in water causes an effluent problem in the air?

RESPONSE 8: Effluent air from the air strippers is treated with series of emission control units which include vapor phase granular activated carbon and potassium permanganate-impregnated zeolite. The system is capable of treating levels of contamination that are significantly above what is expected based on many years of groundwater monitoring.

COMMENT 9: Are you now testing for Freon in the ground water?

RESPONSE 9: Yes. Testing of Freon in the groundwater has been underway for several years.

COMMENT 10: You mention that you put in a wonderful generator on the subslab depressurization system, which is wonderful, so we're breathing clean air. Are there generators for the water treatment extraction pumps, because we were out last year 3-1/2 weeks no power? What was the effect? Were those pumps running and extraction cleaning the water?

RESPONSE 10: While a backup generator exists for the subslab system, there is not a backup generator for the groundwater extraction/containment system. Also see Response 5.

COMMENT 11: Why is the O&M of the golf course irrigation well included in the ROD amendment?

RESPONSE 11: It is included in OU2 ROD and has been deleted from the OU1 AROD.

A letter dated June 30, 2014 was received from Mayor Ronald Cooper of the Incorporated Village of Lake Success, which included the following comments:

COMMENT 12: The Village requests that the Soil Management Plan for the site be constructed to remain consistent with the protocols that have been developed in the past between the NYSDEC RCRA program, the NYSDEC superfund program and the EIS developed under the NYS SEQRA program.

For any construction activity performed in an RCRA area (either inside or outside the buildings on-site) that will result in the disturbance of soil, written approval from NYSDEC will be required and shall be provided to the Incorporated Village of Lake Success prior to disturbance/construction in these areas.

Any soil disturbance/construction activity performed outside of the buildings and not in a RCRA area will be subject to the following – the applicant shall screen the soils (PIO, visual and odor) during the work. Excavated soils to be disposed of offsite shall undergo waste characterization sampling as per the disposal facility requirements. Excavated soil to be re-used on-site shall be sampled in accordance with NYSDEC protocols and obtain NYSDEC Region 1 approval prior to re-use. Copies of all NYSDEC approvals and/or manifests shall be provided to the Incorporated Village of Lake Success.

Any sub-slab construction/soil disturbance activity performed inside the buildings and not in a RCRA area will be subject to the following – During and after the SSDS is installed, all slab penetrations will comply with the Arcadis/NYSDEC-approved Sub Slab Depressurization System Construction Site Specific Health and Safety Plan (HASP) Addendum Great Neck, New York, dated August 13, 2010, the October 18, 2010 Arcadis memo (Appendix G of the FEIS) and the additional requirements, as follows: The associated VOC monitoring shall include

trichloroethene (TCE), tetrachloroethene(PCE), vinyl chloride (VC), at a minimum; an action level greater than 10 parts per million (ppm) total VOCs measured with a photoionization detector (PIO) for a sustained period of 2 minutes in the breathing zone, shall trigger the identification of specific target VOC levels (TCE, PCE, VC) using Draeger Tubes; Draeger Tubes shall be collected for TCE, PCE and VC and if the levels exceed 10 ppm for TCE or PCE and 1 ppm for VC for a sustained period of 10 minutes, work will be suspended until the hazard can be assessed, and/or engineering controls employed. NYSDEC and NYSDOH will be sent the monitoring results (copy to the Village Clerk and Mayor of the Incorporated Village of Lake Success and the Supervisor and Commissioner of Planning & Environmental Protection of the Town of North Hempstead) so that the NYSDEC and NYSDOH can make an assessment and take corrective action as necessary.

We request to be part of this process because OU1 and OU2, to a great extent, is in the Village of Lake Success and affects our population directly. Actions on OU1 also directly affect the finding statement of the EIS that the entity owning 1111 Marcus Avenue is presently complying with in connection with a change in use of the building granted by the Village. Therefore, any site modification and monitoring results may affect the EIS finding statement. Please keep us informed so that we can fulfill our obligations as lead agency under SEQRA as part of that process.

RESPONSE 12: A site management plan (SMP) is required by the Amended OU1 ROD. The SMP will include an excavation plan which details the provisions for management of future excavations in areas of remaining contamination. The SMP should include all of the detailed information identified in your comment. All of the information submitted to the Department can be made available to the Village.

A letter dated July 14, 2014 was received from R. Stan Phillips on behalf of the Lockheed

Plan certain controls, as appropriate, for the closure of areas at the site that either have been the subject of or were proposed to be regulated through activity and use limitations.

Lockheed Martin looks forward to working with Department staff to implement the components of the amended OU No. 01 ROD.

RESPONSE 13: Comment noted.

A letter dated July 15, 2014 was received from resident Michael Currie, which included the following comments:

COMMENT 14: The following recommendation is made as the most efficient and effective means to minimize any further contamination entering the off-site OU 2 and migrating deeper into the aquifer at the on-site OU-1, and to eliminate the contamination at OU1. The most efficient and effective means of eliminating the contamination at OU 1 is to treat the aquifer water/soil at the exact site of the pollution injection.

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and treatment of the water in their immediate vicinity.

In the document titled "Proposed Remediation Action Plan" for site #130045 OU-2 nine items are listed as the basis for the remediation choice. In fact they are good rationale for all the remediation choices at the entire site, OU-1 and OU-2.

1. Protection of Human Health and Environment
2. Compliance with NYS Standards, Criteria, and Guidance (SCGs)
3. Long Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility or Volume
5. Short Term Impact and Effectiveness
6. Implementability
7. Cost-Effectiveness
8. Land Use
9. Community Acceptance

Installing an extraction and treatment system at the pollution injection site satisfies numbers 1, 3, 4, and 5 of these criteria by its definition and associated requirements. Since it will be very similar to the other on-site system, it will satisfy criteria 2 and 6. There is an active Vapor remediation system close contaminant injection site now, to expand that to include this new system satisfies criterion 8. Most importantly any plan that will completely and permanently remove the pollution from the aquifer water will have overwhelming community acceptance, satisfying criterion 9. As far as criterion 7 is concerned, the more rapidly and efficiently the contaminants are removed, the more totally cost effective the plan is.

Why did we put the pumping wells for this site at the NW side of the building when the greatest contamination is on the SE side of the building?

RESPONSE 14 The goal of the remedy for TOU-1 was to address the TOU-1 (2.9-3(r))T e T

vadose zone. Groundwater monitoring near the source area shows that levels of contaminants in the groundwater have significantly decreased, indicating that the measures that have already been implemented are successful. Lastly, installation of a groundwater extraction system in the source area could significantly reduce the effectiveness of the OU1 groundwater system that is located in the northern portion of the site. This system has been installed to prevent off-site migration.

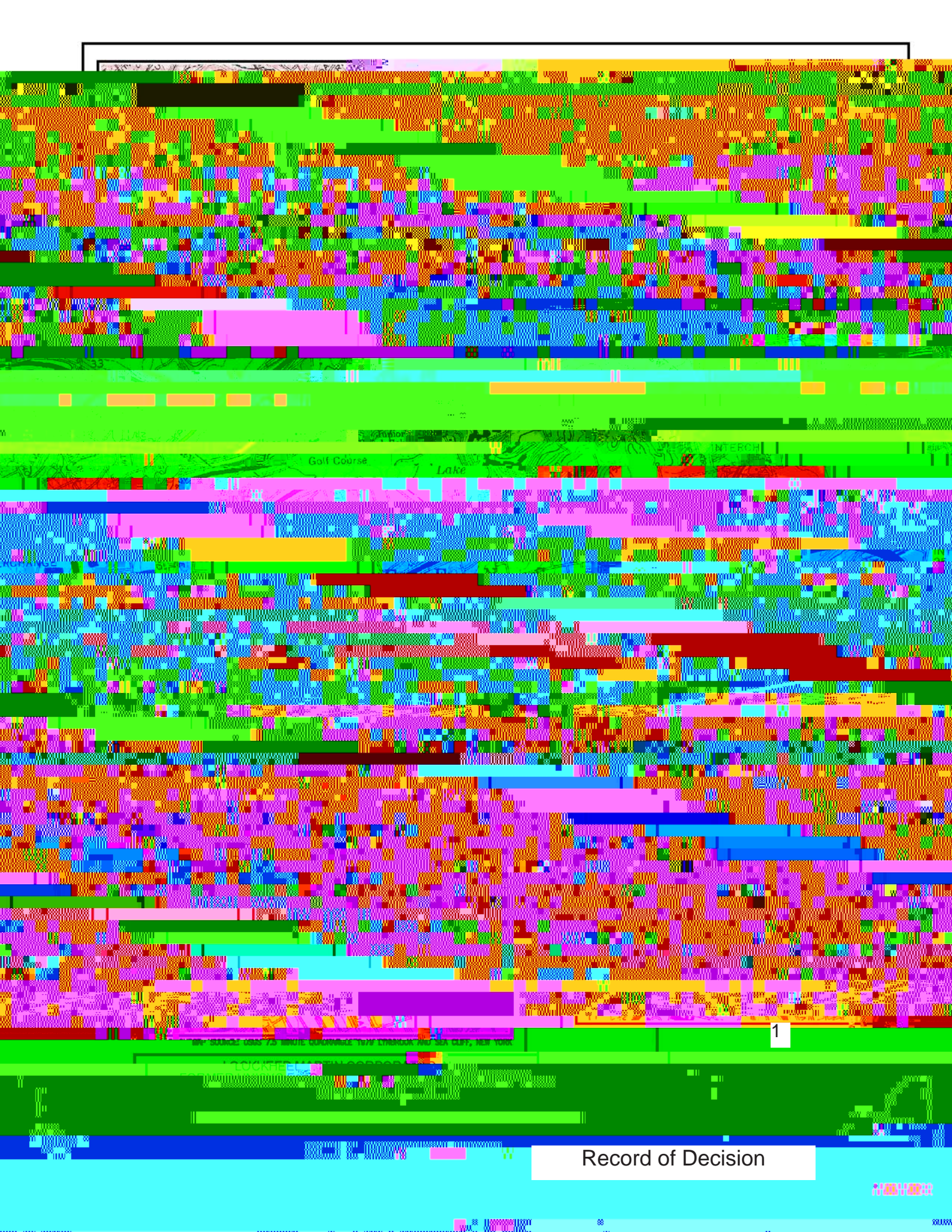
The remedy selection criteria identified in the comment are intended to be used to compare different alternatives rather than be used absolutely as this comment does.

APPENDIX B

Administrative Record

Administrative Record

Unisys Corporation Site



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Record of Decision