

## COMMUNITY INVOLVEMENT (CI) RECOMMENDATIONS AND ACTIONS

### **Reaffirm DoD organizational commitment to community involvement as the basis for decision-making.**

Concur. The Air Staff (AF/ILEVR), Secretariat (SAF/MIQ), Deputy Under Secretary of Defense for Environmental Security (DUSD-ES), and Army (USA/ACISM) support the Senior Management Board (RAB), Management Review Group, Executive Review Group, Natural Resource Trustee meeting, and open house functions at MMR. All Service representatives have proclaimed their support for the Environmental Restoration program at MMR. Numerous newspaper articles have proclaimed the tremendous support for the IRP program and the regional water supply project by all services. Officials of these organizations continue to state their support for community-based decisions in every forum and opportunity possible. OPR: HQ USAF/ILEV, SAF/MIQ, DUSD-ES

ECD: Complete-recommend this action be closed.

### **Affirm that cleanup criteria appropriately rely on technical and non-technical factors assessed jointly by MMR and its stakeholders.**

Concur. The Air Staff (AF/ILEVR), Secretariat (SAF/MIQ), Deputy Under Secretary of Defense for Environmental Security (DUSD-ES), and Army (USA/ACISM) support the Senior Management Board (RAB), Management Review Group, Executive Review Group, Natural Resource Trustee meetings, and open house functions at MMR. All representatives have proclaimed their support for the Environmental Restoration program at MMR. Numerous newspaper articles have reported the tremendous support for the IRP program and the regional water supply project. Officials of these organizations continue to state their support for good science combined with community input to come to a community-based decision in every instance. OPR: HQ USAF/ILEV, SAF/MIQ, DUSD-ES

ECD: Complete-recommend this action be closed.

### **Acknowledge the various sources of stakeholder outrage at MMR.**

Concur. The Air Staff (AF/ILEVR), Secretariat (SAF/MIQ), Deputy Under Secretary of Defense for Environmental Security (DUSD-ES), and Army (USA/ACISM) support the Senior Management Board (RAB), Management Review Group, Executive Review Group, Natural Resource Trustee meetings, and open house functions at MMR. All representatives have proclaimed their support for the Environmental Restoration program at MMR. Numerous newspaper articles have reported the tremendous support for the IRP program and the regional water supply project. Officials of these organizations continue to state their respect and support for the stakeholders at MMR. AFCEE/MMR and the Joint Program Office have made great strides in bringing the stakeholders into the decision making process. Acknowledging the rights and frustrations of the various stakeholders has and will continue to be of prime interest to all participants of the various working groups at MMR. OPR: HQ USAF/ILEV, SAF/MIQ, DUSD-ES

ECD: Complete-recommend this action be closed.

### **Develop more systematic and innovative methodologies for explaining and discussing technical and non-technical information, values, and outrage concerns with stakeholders.**

Concur. HQ AFCEE and AFCEE/MMR are currently researching a process and delivery method for this item. HQ AFCEE is trying to determine where and how an appropriate example has

been successfully implemented. Once this is complete AFCEE/MMR will implement the strategy. OPR: AFCEE/MMR-CI

ECD: August 2000.

**Integrate “outrage management” approaches into MMR community involvement efforts.**

Concur. HQ AFCEE and AFCEE/MMR are currently researching a process and delivery method for this item. HQ AFCEE is researching to determine where and how an appropriate example has been successfully implemented. Once this is complete AFCEE/MMR will implement the strategy. OPR: AFCEE/MMR-CI

ECD: August 2000.

**With stakeholder input, codify and follow more explicit protocols for community involvement.**

Concur. The Community Involvement (CI) Plan, protocols, and procedures have been developed and included in the MMR Strategic Plan. The CI program has drawn praise from stakeholders. The Air Force is using the MMR CI program as a model for restoration programs at other installations. The Air Force believes publishing the CI plan in the MMR Strategic Plan has codified the CI program. OPR: AFCEE/MMR-CI.

ECD: Complete-recommend this action be closed.

**Incorporate community involvement into the “business” side of the cleanup ensuring clear goals, formal evaluation standards, and periodic external reviews.**

Concur. Community involvement (CI) has been a goal of the installation restoration program (IRP) since HQ AFCEE was designated as the executive agent for cleanup at MMR in CY96. The CI plan for MMR has clear goals and performance standards for technical and management staff. CI is an integral part of the Decision Criteria Matrix (DCM) which the Air Force considers the “business” side of the cleanup program. The AFCEE/MMR team periodically conducts interviews with stakeholders (external review) to assess performance, perception, and identify issues. Evaluation of the CI program is by the stakeholders and the CI program at MMR has received high marks by regulators, activists, and media. OPR: AFCEE/MMR-CI

ECD: Complete-recommend this action be closed.

**Ensure that statements made in “public fact sheets” and similar summaries are keyed to accessible and comprehensible technical documents to which stakeholders can refer.**

Concur. Database and graphical information will be available on the MMR web site in the near future. Administrative record will be reviewed and upgraded to ensure completeness. Short bibliographies are now being included in public fact sheets. OPR: AFCEE/MMR-CI.

ECD: Web Site: October 2000. Administrative Record: November 2001. Bibliographies: Closed.

**Explore methods to develop a “win-win” culture that embraces technically defensible remedies and community-based decision making. For example: negotiated compensation may reduce stakeholder demand for remediation approaches that might otherwise be considered technically inappropriate.**

Concur. AFCEE/MMR will continue to look for opportunities to provide technically defensible remedies and community-based decisions within their authority under the Defense Environmental Restoration Program. OPR AFCEE/MMR-CI

ECD: N/A-recommend item be closed.

**Expand community involvement efforts to provide a forum for discussing other Cape environmental health concerns, whether or not these concerns are part of IRP's mandate or even part of MMR's footprint.**

Concur. This is a function of the Joint Program Office (JPO). The JPO has taken the lead as it's ever increasing involvement in MMR environmental issues. The Agency for Toxic Substances and Disease Registry Community Assistance Panel is broadening its perspective beyond the Superfund site.

OPR: AFCEE/MMR-CI and JPO/CI

ECD: Results will be produced as opportunities arise. Recommend item be closed.

**Ensure community involvement in the revision of the Community Involvement Plan and utilize it as an opportunity to begin implementing the above recommendations.**

Concur. The revised MMR Community Involvement Plan (CIP) and other community involvement (CI) related documents will ensure improved community involvement. CI implementation planning will also be addressed in the revised CIP on a source/plume basis as well as program-wide.

OPR: AFCEE/MMR-CI and JPO/CI

ECD: December 2000

## **RISK ASSESSMENT RECOMMENDATIONS AND ACTIONS**

**Identify those MMR risk estimates that result from screening assessments and highlight major assumptions that produce large overestimates of risk.**

Concur. AFCEE/MMR will accomplish a risk assessment review, compiling the history, nature, and logic of risk assessments at MMR and their uses.

OPR: AFCEE/MMR

ECD: Aug 2000

**Conduct an audit to document the major decisions regarding MMR risk assessments to include procedures, models, and exposure assumptions selected. Key choices among models and assumptions for major risk assessments should be documented and explained.**

Concur. AFCEE/MMR will accomplish a risk assessment review, compiling the history, nature, and logic of risk assessments at MMR and their uses.

OPR: AFCEE/MMR

ECD: Aug 2000

**Ensure that the rationale and supporting documentation are included with the risk assessment, especially when negotiated assumptions, models, or values are used.**

Concur. AFCEE/MMR will ensure all documentation and rationale is included as part of any future risk assessments.

OPR: AFCEE/MMR

ECD: Recommend item be closed.

**Ensure that risk assessments are routinely peer reviewed by an experienced risk assessor independent of the entity conducting the risk assessment.**

Concur. AFCEE/MMR will use the Technical Review and Evaluation Team (TRET) and an independent contractor, Foothills Engineering, to accomplish this objective in the future.

OPR: AFCEE/MMR

ECD: Occur as opportunities arise. Recommend item be closed.

**Improve document control and ensure copies of all data that are used for decision making are properly catalogued. Documentation of the methods and assumptions underlying the risk estimates must be both readily accessible and reliable. Future risk documents should contain pointers to the documents where risk assessment supporting data, models, or calculations can be found.**

Concur. AFCEE/MMR will identify proper actions as a result of the risk assessment review and ensure all documentation is in the administrative record, other repository sites, and available in the installation restoration program library at MMR.

OPR: AFCEE/MMR

ECD: August 2000

**As part of the Community Involvement Plan and using data and situations from MMR data, develop case studies to assist groups or individuals in understanding the risk assessment paradigm and process. Hands-on experience with the risk assessment process should inform stakeholders about the strengths and limitations of risk estimates, thus allowing more knowledgeable participation in the decision-making process.**

Concur. AFCEE/MMR will develop fact sheets and other material for general distribution to address this recommendation. AFCEE/MMR will request the MMR joint program office to assist the installation restoration program in educating the public on how risk assessments change as the various factors change, such as age, length of residence, etc.

OPR: AFCEE/MMR-CI, MMR JPO

ECD: August 2000

## TECHNOLOGY RECOMMENDATIONS AND ACTIONS

### **Make all site data readily accessible and ensure that they are comprehensible and complete.**

Concur. The MMR administrative database and graphical information is available now for queries. In the future the information will be available over the web and in the future the upgraded administrative record will allow electronic searches.

OPR: AFCEE/MMR

ECD: Complete Recommend item be closed.

### **Define the appropriate qualifications and skill mix needed for the next phase of groundwater cleanup.**

Concur. The MMR IRP is beginning to plan for the next phase of the cleanup. Once technical program requirements are determined the skills mix and qualifications of government and contractor staff will be identified. OPR: AFCEE/MMR

ECD: As opportunities arise. Recommend item be closed.

### **Establish a formalized peer review process for various aspects of the projects on a periodic basis.**

Concur. The Technical Review and Evaluation Team(TRET) will provide continuous peer review. HQ AFCEE will fund periodic peer review using industry (versus government) standards on an individual basis.

OPR: AFCEE/MMR, HQ AFCEE.

ECD: As opportunities arise. Recommend item be closed.

### **Utilize the observational approach and monitoring data to update and improve groundwater remedial systems.**

Concur. The consolidated Systems Performance Ecological Impact monitoring (SPEIM) program addresses this requirement. This program provides information on the effectiveness of groundwater treatment systems performance by looking at data taken directly from the affected aquifer. Adjustments to pumping scenarios are made following analysis of the data. In addition, this program monitors the effects of the contaminant plumes and their treatment systems on local ecological systems.

OPR: AFCEE/MMR

ECD: Complete. Recommend item be closed.

### **Develop a more comprehensive, routine performance assessment program of the plume remediation programs based on actual field data as reported in the quarterly monitoring reports.**

Concur. The consolidated Systems Performance Ecological Impact monitoring (SPEIM) program addresses this requirement. This program provides information on the effectiveness of groundwater treatment systems performance by looking at data taken directly from the affected aquifer. Adjustments to pumping scenarios are made following analysis of the data. In addition, this program monitors the effects of the contaminant plumes and their treatment systems on local ecological systems.

OPR: AFCEE/MMR

ECD: Complete. Recommend item be closed.

**Consider contributions of less traditional approaches for site remediation.**

Concur. Less traditional approaches for site remediation (e.g. recirculating wells, natural attenuation, extraction-treatment-reinjection design optimization) continue to be used at the MMR, with stakeholders concurrence. The dilute nature of most MMR plumes and the close proximity of off-base receptors make the use of less traditional approaches a challenge. AFCEE/MMR continues to work with the EnviroTech Center at MMR to test developing technologies which prove cost effective and usable at the MMR.

OPR: AFCEE/MMR

ECD: As opportunities arise. Recommend item be closed.

**Although transition from active remediation (pumping) to long term management of plume restoration is conceptually defined, develop the practical details/procedures for implementing this concept.**

Concur. Remedial project managers are in discussion with the Technical Review and Evaluation Team (TRET) on this topic. AFCEE/MMR and the TRET plan to better define the transition process from active pumping to monitoring through the initial phases of the extraction-treatment-reinjection systems. Every opportunity to address this subject with the stakeholders will be taken.

OPR: AFCEE/MMR

ECD: As opportunities arise. Recommend item be closed.

**Report capital and annual costs of remediation systems and future or life cycle costs in an accessible format.**

Concur. AFCEE/MMR will develop an easily understood table of costs that can be updated periodically. This table will supplement any current budget documents used by AFCEE/MMR to explain the costs of the program.

OPR: AFCEE/MMR

ECD: November 2000 and annually thereafter.

**Consider establishing a center for research at MMR on community outreach, risk and technology communication, and evaluation of innovative technologies to develop effective strategies for federal facilities to achieve site closure in a manner acceptable to the impacted community in the most cost effective manner achievable.**

Concur. Commonwealth of Massachusetts has established the EnviroTech Center. AFCEE/MMR is in consultation with the center personnel and board of directors to search for ways the center can be of assistance to the MMR cleanup program. AFCEE/MMR will support any effort from the center deemed appropriate for the MMR cleanup program.

OPR: AFCEE/MMR

ECD: As opportunities arise. Recommend item be closed.