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Background

Leadership, or problems associated with its practice on the fireline, has been cited frequently as a factor contributing to wildland fire accidents in Accident Investigation Reports and management reviews for many years. The importance of leadership on fires has been echoed time and again. In the Final Report of the Interagency Management Review Team on the South Canyon Fire, published June 26, 1995, the statement is made that "attitudes and leadership are universal factors that influence safe fire suppression." A few years later, the "Wildland Firefighter Safety Awareness Study, Phase III" (Tri-Data report) was published. It contained numerous goals and implementation strategies related to leadership and leadership training. For example, Goal 69: "Provide supervisors with training in leadership and supervisory skills". Goal 74: "Prepare leaders for decision-making under stress".

Members of the National Wildfire Coordinating Group (NWCG), along with members of the NWCG's Training Working Team (TWT), have recognized for some time that what is needed is a strategy for the development of leaders in wildland fire. While some attempts have been made to deal with leadership issues in the existing training curriculum, an overall strategy has been notably lacking. No leadership training is currently required for any position in the Wildland and Prescribed Fire Qualification System Guide (PMS 310-1). Verbal criticism of existing leadership training courses is abundant.

It was in this atmosphere that the NWCG Training Working Team decided to charter a Task Group with the specific goal of analyzing the leadership training curriculum, identifying alternatives and making recommendations. The Leadership Task Group of the TWT was chartered in September, 2000 and reports to the TWT in February, 2001. See Appendix for Task Group Charter.
THE GOAL: LEADERSHIP DEVELOPMENT

The first order of business for any training development process is usually stated something like this: conduct training needs analysis. A training needs analysis seeks to identify the gap between desired performance and actual performance, and whether or not that gap can be addressed through training. In the realm of leadership in wildland fire, our needs analysis has been conducted in every accident investigation and safety study that has pointed to human factors and leadership as key components of everything from fatality fires to simple inefficiency.

After needs analysis, the next order of business in training development is: identify instructional goal. In other words, you'd better figure out what you're trying to accomplish before getting to work developing anything! It's a fairly straightforward concept when dealing with a cognitive, technical concept like "learn how to troubleshoot a malfunctioning Mark III pump". Leadership, however, is often referred to as a "soft skill", which means that it is more in the affective, behavioral realm of learning.

For leadership training, we need to determine: what is the goal we are trying to accomplish in training leaders? Of course, the answer should be an easy one. The wildland fire organization needs good leaders and we need to train them up and get them out in the field. Unfortunately, though, it's not quite so easy. How is "good leader" defined, how do we "grow" them, and how should they be used and evaluated in the field?

At this point, it would be wise for the wildland fire organizations to take a collective step back and take a holistic view of leadership. Perhaps the focus shouldn't be on leadership training at all; perhaps the real focus should be on leadership development. This isn't splitting semantic hairs, it is a necessary distinction. Training may be a key component of leadership development, but without the other components, such as assessments and experience, training alone can't help us reach the goal of developing good leaders. While there is a good deal of leadership theory that can be taught in the classroom, perhaps the most valuable and lasting leadership lessons are learned through personal experience. Further, in order to define what represents a "good leader", we need a common set of definitions of desirable leadership traits and principles.

Where does all this leave us with our goal? The belief of the Leadership Task Group is that our goal should be to institutionalize leadership development. We would argue that the leadership problems that currently face our organizations are a direct result of the lack of institutionalized leadership development. Further, we believe that institutionalizing leadership development is made not only possible but eminently practical by the fact that there is a firmly established cultural identity in wildland firefighting organizations.

Firefighters today may not really expect good leadership, but they sure want it and they know it when they see it. A program that helps leaders develop should be embraced as a positive thing for the interagency fire community.
EXECUTIVE SUMMARY

The Leadership Task Group to the Training Working Team believes that new approaches are called for in addressing the leadership issues that face wildland fire organizations. These leadership issues are very complex, defying simple explanation or easy understanding. Solutions to these issues will by necessity be complex as well.

Although our group was tasked with analyzing the NWCG training curriculum and making recommendations on leadership training issues, we ended up concluding that training alone is not enough. We feel strongly that what our organizations need is to institutionalize leadership development, which means we need to do a lot more than just provide classroom training.

During the analysis phase of our work, we examined a number of different types of organizations that attempt to address leadership issues in their work forces for a variety of reasons. In the private sector, leaders are needed to enhance the company's bottom line. In government, leaders are needed to accomplish agency missions. In the military, leaders are needed to fight battles and win wars. Benchmarking a variety of organizations gave us some perspectives on our own organizations and some ideas for dealing with our own leadership challenges.

We found that there is no such thing as a "military model" or a "corporate model" for leadership. There are many different leadership concepts and practices in both the public and private sectors. The task for the wildland fire community is to sift through all of these and come up with some combination that will work best for us, given the challenges our organizations face.

In examining our operational environment and comparing it to that of other organizations, the largest number of similarities are found in the military and in other emergency service organizations. These organizations all operate in high risk environments where decisions must be made within compressed time frames, often by people under a great deal of stress. By and large, we found that many of the leadership development concepts and techniques practiced in the military have some applicability in the world of wildland fire. We're not suggesting that our operations mimic those of military organizations; we are suggesting that we use ideas that make the most sense and have the best chance of working.

One consideration that we made in our analysis was that there are some marked differences between temporary organizations and permanent organizations. Temporary organizations are those that are put together as needed, such as any incident management organization. Permanent organizations are "standing" structures that are more or less always in place, for example the fire management organization at a local unit. The differences in the relative permanence of an organization have a variety of impacts on the exercise of leadership. Our recommendations primarily focus on leadership in temporary organizations.

The following is a summary of the recommendations contained in this report.

1. Establish a distinct Leadership curriculum of courses that are connected conceptually from the least complex (follower) level to the most complex (organizational leader) level. This curriculum should have its own designator (e.g., L-courses) to set it apart from technical courses.
2. Develop a strategy for accomplishing new course development, including a time line for completion, delivery strategy and cost analysis. Some existing leadership courses can be used, and some new course development will be required in order to meet the leadership development needs of all levels of our organizations. Delivery strategy needs to include a plan for developing agency employees as instructors for the more advanced leadership courses; initially these courses will only be deliverable by a vendor with expertise in leadership development.

3. The "Human Factors" course and the "Followership to Leadership" course should be in the Publication Management System (PMS) as Level III courses under the "NWCG Course Development and Format Standards" guidelines. The Human Factors course is currently in the PMS; Followership to Leadership is currently under development and needs to be reviewed by the NWCG Standards Unit upon completion.

4. The "Primary Leadership" course and the "Incident Leadership" course should be exempted from the requirements included in the "NWCG Course Development and Format Standards" guidelines. These standards were developed primarily for the in-house development of technical courses in the cognitive domain to be delivered by agency personnel. These two advanced leadership courses are in the affective domain and will be developed and presented by vendors–at least initially. Adhering to the NWCG standards will likely slow the development and delivery of these courses and is not likely to enhance course effectiveness.

5. Establish a mechanism for evaluating the effectiveness of leadership training. Such a mechanism might involve the use of contractors and agency personnel conducting field interviews and observing job performance on fires, months or years after training is presented. The idea is to accurately assess how the training impacted performance on the job.

6. Eliminate the current S-201 and S-301 courses from the NWCG training curriculum. Examine whether the supervision and management skills training that exists in those courses needs to be presented within the wildland fire curriculum, or whether those training needs can best be satisfied by other agency-required training that is already available.

7. Incorporate the Human Factors course into the NWCG S-130 Firefighter training course. This will allow all entry-level firefighters to receive information on follower responsibilities. The Human Factors course will also exist as a stand-alone course, for those who are not required to take S-130.

8. Eliminate the S-131 course. Make the Followership to Leadership course a requirement for the FFT1 position. Both are 8 hour courses, so this change results in no net increase of required training for the Squad Boss position. S-131 was developed in response to the South Canyon Fire tragedy, yet it does little to address leadership issues at the squad boss level. Since Followership to Leadership does address precisely those leadership issues, it should be
required course at the FFT1 level. The more cognitive, technical content of the existing S-131 course could be developed into a Job Aid.

9. Revise the Wildland and Prescribed Fire Qualification System Guide (PMS 310-1) to make specific leadership courses "required training" for certain key positions and "additional training" recommended for other positions. Incident Operations Standards Working Team to review, modify as needed, and approve changes to the 310-1 recommended in this document. Suggested completion date, Fall 2001.

10. Adopt a specific set of desired leadership principles and values that are common to all our organizations. Communicate these principles and values to our workforce and incorporate them in leadership training.

11. Develop a self-study component of the leadership curriculum that allows people to study leadership concepts and principles outside the context of formal classroom training. For example, establish a leadership-themed website and publish a "book of books" of recommended reading materials that will help people develop as leaders.

12. Institute the use of leadership skills assessment tools within the framework of the leadership curriculum. The primary intent in using assessment tools is to enable people to identify which leadership traits they need to improve. The intent is not to use these assessment tools for disciplinary action. Some results could be used to determine whether or not individuals are ready to advance to higher-level Incident Command leadership positions.

13. Establish a standing group (e.g., Steering Committee) that will be responsible for overseeing the implementation of the recommendations in this report. It is widely recognized that, regardless of their quality, reports alone do not accomplish change in an organization.

14. During the ongoing NWCG course revision process, analyze each course within the "S-" curriculum to determine if leadership content is appropriate in the course given the nature of the position for which the course is targeted (e.g., Crew Boss). The creation of a separate leadership curriculum will not eliminate the need for the "context-specific" practice of leadership competencies.

There is no single magic bullet for leadership in wildland fire, no quick fix, no easy answer. The creation of an environment where leaders are developed in an organized way is likely to take years, which seems like a good reason to get started right away.
ANALYSIS

WHAT IS LEADERSHIP?

This fundamental question has been the subject of scholarly debate for centuries. Hundreds of books have been written on leadership. Not just what is leadership, but also what is the nature of it: is it an art or a science? Can it be taught or is it hereditary? Is leadership the same as supervision? Where does management fit in? Is leadership on the fireline different than leadership anywhere else? These and countless similar questions can end up swirling around in your brain as though you were the victim of bad medication. How do we end up making sense of it all?

First, we propose that we dispense with the notion that leadership is based solely on heredity. Leadership at its core involves dealing with people; we all accept that some people seem to be naturally better at this than others. However, there is ample evidence in both the private and public sectors that leadership traits can be identified and those traits developed in individuals who are willing to work and learn. Maybe the whole debate is moot, though. For wildland fire organizations, the bottom line is this: even if leadership were solely hereditary, just think what an orderly process of leadership development would do for the "born leaders". How much better would they be?

If we accept the basic tenet that good leaders can be "grown" or developed, then the next thing is to try to define just what leadership is, and what it is not. It is very easy to get bogged down in semantics in this type of endeavor. Perhaps the best approach will be to try to arrive at some agreed-upon "working definitions" that will allow us to move on.

The U.S. Army Field Manual 22-100, entitled "Army Leadership", contains a pretty good definition of leadership, one that would seem to apply to any type of organization.

“Leadership is influencing people—by providing purpose, direction and motivation—while operating to accomplish the mission and improving the organization.”

The Army Manual goes on for another five pages, explaining in detail what terms like "influencing" and "motivation" mean. For our purposes, the above definition can probably stand alone; it contains all the basic elements of what leadership is and what it aims to accomplish. Influencing, motivating, providing purpose and direction: all focused on getting the job done and at the same time improving the organization. What a tall order, no wonder it's a complex subject!

Let's take a stab at a working definition for supervision. “Supervision involves the application of procedures and policies in directing employees to achieve an organization's immediate objective(s).” Obviously it is similar enough to leadership in some ways: it involves directing employees (influencing people) to achieve objectives (accomplish the mission). However, there is more of an emphasis on procedures and policies and on achieving short-term goals (immediate objectives) than what's embodied in our definition of leadership. Leadership involves providing purpose, direction and motivation, and the goal is not just to accomplish immediate objectives but also to improve the organization. These may seem to be subtle distinctions, and in the final
analysis one could conclude that supervision is simply a skill set under the broader umbrella of
"leadership".

Management is a little easier to separate from the other terms.  “Management involves the
coordination of fiscal resources, logistical resources, and human resources to achieve an
organization's long-term goals.” Not much in here about directing or motivating employees, is
there?

Given the above definitions, it's fairly easy to define what leadership is not.  It is not a technical,
cognitive subject that can be studied, disassembled and reassembled like an internal combustion
engine.  It deals with human behavior and communication, subjects that are at times as
impenetrable as dog-hair lodgepole pine.  The study of leadership has more in common with the
fields of behavioral science and psychology than it does with fire behavior and meteorology.
We're typically comfortable when dealing with the science of fighting fire, but when it comes to
the study of people fighting fire we're suddenly off balance.  There's no belt weather kit for
measuring human behavior.

Is leadership on the fireline different than leadership anywhere else?  In some ways, perhaps it
isn't very different.  Many leadership concepts and practices are universal.  The skill set required
for "influencing people by providing purpose, direction and motivation" may be pretty similar
for running a hotshot crew or an advertising sales force.  It's the environments that people
operate in that differ, and this has many subtle impacts on the exercise of leadership.  For
example, both the hotshot crew and the sales force operate under stress and there can be adverse
consequences for all involved if poor leadership is exercised and poor decisions are made.
However, the hotshot crew is under a great deal of physical stress as well as mental stress; they
typically operate under high levels of fatigue.  The hotshot crew lives together 24 hours a day
when on fire assignments, something most sales forces aren't required to do.  This adds
additional unique stresses and leadership challenges.  When the hotshot crew superintendent
makes a decision on the fireline, chances are he or she doesn't have a great deal of time to
analyze all of the possible outcomes of that decision.  Finally, the consequences of poor
leadership and decision making on a hotshot crew can lead to its members being killed or
injured, while on the sales force maybe the worst that can happen is that someone doesn't sell
enough and loses their job.

In other words, many leadership principles and techniques apply everywhere--in the military, in
civilian government and in the corporate world.  It's the application of those leadership
principles and techniques that differs based on the environment in which leadership is exercised.
That's what makes leadership in wildland fire different from any other type of leadership.
CURRENT SITUATION

Fundamental Flaws in the Current Curriculum

The following specific problems were identified with wildland fire leadership training as it exists today:

1. Nothing is presented at the entry level (firefighters, personnel time recorders, etc.)

2. Courses currently billed as "leadership courses" cover a lot of other content such as supervision, management, ethics and conduct, EEO. Much of this content is presented in other agency-required sessions (e.g., ethics and conduct, EEO/sexual harassment), so it is redundant, plus it is not directly related to leadership.

3. There is no distinct articulation of the separation/differences between leadership, supervision and management.

4. Courses currently deliver content to students but they do not get opportunities to put concepts into practice. This is not effective learning for adults.

5. Leadership courses are not required for any positions in the 310-1.

6. There is no leadership model or group of concepts taught that are continuously linked from lower to higher levels in the curriculum.

7. There is no assessment of leadership capabilities or skills development; no way to measure if objectives have been met.

8. There is no method of providing or acquiring continuing education opportunities with regard to leadership.

9. Delivery of training is poorly timed: currently, the concepts covered in S-201 and 301 are delivered far too late in people's careers. Many of these are basic concepts that people should be getting earlier.

NWCG Leadership Training Courses

S-201 and S-301 Discussion

Since these courses are the currently identified ones in the NWCG training curriculum that purport to contain leadership content, we examined them thoroughly. Our examination not only focused on whether or not the courses contained information specific to leadership issues, we also looked at whether the material presented was appropriate to the level of qualifications of the people who would normally take the course.

Detailed analyses of each course are presented below. To summarize these, what we found was that the courses contain a mixture of leadership content and management
content, and that the leadership content in each course varies from "high level" to "low level" concepts. For example, S-301 contains information covering followership skills. By the time a person is far enough along in their wildland fire career to be taking 300-level courses, they should already be familiar with followership skills and concepts.

The two courses appear to be independent products; in other words, 301 does not effectively build upon the content presented in 201. Further, there is a great deal of content in both S-201 and S-301 that appears to be redundant with agency-required "first 40" supervisory training. Topics such as delegation and the use of objectives in evaluating performance are routinely covered in agency-required supervisory training. Our feeling is that this redundancy is wasteful and that the Training Working Team needs to decide whether any supervisory or managerial content is appropriate within the NWCG training curriculum, and if it is, at what level. Further, many agencies require annual training on topics such as EEO, Civil Rights, sexual harassment—why duplicate this training in the NWCG curriculum?

Finally, neither of these courses is officially required in order to become qualified for any ICS position. This means that a person can advance to high levels of ICS qualifications without ever having taken them or received much of anything in the way of leadership training. We feel this is a problem, given the leadership issues that continue to be identified in accident reports and safety studies.

The analyses below examine unit objectives for leadership content and applicability. They also compare the content in the NWCG courses with the following recently developed leadership courses: Human Factors (HF), Followership to Leadership (F2L), and Fireline Leadership (FL). The Human Factors course was developed under the auspices of NWCG’s Safety and Health Working Team; the Followership to Leadership course was developed as part of the SAFE Initiative; Fireline Leadership was developed under the auspices of the U.S. Forest Service.

**S-201 Analysis and Content Comparison**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>HF</td>
<td>Human Factors course</td>
</tr>
<tr>
<td>F2L</td>
<td>Followership to Leadership course</td>
</tr>
<tr>
<td>FL</td>
<td>Fireline Leadership course</td>
</tr>
</tbody>
</table>

**Unit 0–Introduction**

1. Introduce the trainees to the instructors, peers, and purpose of the course.
2. Identify trainee expectations and concerns.
3. Identify the course format, unit topics, course agenda and use of the student workbook.
4. Identify trainee performance level and course completion requirements.
Analysis:

- Not applicable, standard introduction process that is not specific to any content issues.

Unit 1–Supervisor Responsibilities

- Define a supervisors role, legal responsibilities, relationship with subordinates, and benefits of being a supervisor.

Analysis:

- Roles and relationships are leadership issues.
  - *F2L Course covers roles in the context of leadership values and principles and recognizing leadership misconceptions (1 hour).*
  - *FL Course covers roles and relationship in the context of levels of leadership, the leadership environment, leadership values and principles (4 hours).*
- Legal responsibilities are an agency and position specific topic.
  - Needs to be covered, but not a leadership issue (First 40 Supervision training?).
- Benefits of supervision is a leadership issue.
  - *F2L Course covers leader motivation in the context of self-analysis of why individuals want to fill leadership roles (½ hour).*

Unit 2–Ethics

1. Define ethics and describe their relevance to the role of the supervisor.
2. Identify criteria to determine if a decision is ethical.
3. Given a questionable ethical situation, identify information sources available to supervisors for consultation.

Analysis:

- Ethical behavior and ethical decisions are leadership issues.
  - *FL Course covers ethics in the context of professional ethics, ethical dilemmas, and ethical decision making (2 hours).*
- Ethics information sources is a duplication of annual required agency training.
Unit 3–Workforce Diversity

1. Define workforce diversity, civil rights, affirmative action, and equal employment opportunity.
2. Describe the supervisor's role in recognizing, supporting and utilizing a diverse workforce.

Analysis:
• Entire unit is duplication of annual required agency training.

Unit 4–Mutual Respect

1. Define mutual respect, harassment, sexual harassment, discrimination, and inappropriate behavior.
2. Identify the supervisor's role in dealing with sexual harassment, discrimination, and inappropriate behavior.

Analysis:
• Entire unit is duplication of annual required agency training.

Unit 5–Critical Incident Stress

1. Define a critical incident.
2. Identify the behaviors associated with a critical incident.
3. Describe a supervisor's responsibility to someone who has experienced a critical incident.

Analysis:
• Critical incidents, fear, and stress are leadership issues.
  ! *HF Course covers stress in the context of individual self-awareness of stress reactions (1 hour).*
  ! *FL Course covers stress in the context of recognition of human error, fear, and stress in order to mitigate their effects for subordinates (2 hours).*
• Critical incident stress requirements are an agency specific topic.
  ! *Needs to be covered, but not a leadership issue (CISD training?).*
Unit 6–Communication

1. Identify and describe the essential elements of communication.
2. Demonstrate the ability to receive and present oral and written information.
3. Describe the importance of providing feedback to oral and written information.

Analysis:
- Entire unit consists of follower level skills.
  - *HF Course covers situation awareness and communication at this level (1 ½ hours).*

Unit 7–Leadership

1. Define goals, objectives, and tasks.
2. Describe the planning, assigning, controlling, and evaluating (PACE) system.
3. Describe four leadership styles.
4. Describe appropriate supervisory appraisal, delegation, documentation, motivation, and evaluation procedures.
5. Describe effective decision making.
6. Describe methods to solve problems and differentiate between conduct and performance problems.

Analysis:
- Objectives #1 and #2 consist of basic supervision skills.
  - *Needs to be covered, but not a leadership issue (First 40 Supervision training?).*
- Objective #3 is a leadership issue.
  - *F2L Course covers leadership styles in the context of basic situational leadership problems (1 ½ hours).*
  - *FL Course covers leadership styles in the context of advance situational leadership scenario analysis, sources of power, and follower challenge groups (4 hours).*
- Objective #4 consists of basic supervision skills (except motivation).
  - *Needs to be covered, but not a leadership issue (First 40 Supervision training?).*
  - *FL Course covers motivation in the context of it being the primary component of a leadership vision (1 hour).*
- Objective #5 is a leadership issue.
  - *HF Course covers decision making in the context of basic decision process awareness (1 hour).*
Unit 8–Teambuilding

1. Define a team.
2. Describe advantages and disadvantages of teams.
3. Describe methods for building teams.

Analysis:
- Objective #1 and #2 consist of follower level knowledge.
  - HF Course covers teams in the context of teamwork guidelines (½ hour).
- Objective #3 is a leadership issue.
  - F2L Course covers teams in the context of comparing team decisions to individual decisions (½ hour).
  - FL Course covers teams in the context of team building methods and training plans (4 hours).

S-301 Analysis and Content Comparison

Unit 0–Introduction

1. Course objective
2. Cadre/trainees
3. Course development history
4. Agenda
5. Performance expectations
6. Course learning contract

Analysis:
- Not applicable, standard introduction process that is not specific to any content issues.
Unit 1–Communication

1. Describe the communication methods used by the average supervisor.
2. Identify what a supervisor's communication goals should be.
3. Describe the basic process of human communication.
4. Identify the conditions necessary for accurate and effective communication.
5. Differentiate between hearing and listening.

Analysis:
- Entire unit consists of follower level skills and is a duplication of communication units found in other S-courses.
- *HF Course covers basic communication processes* (1 1/2 hours).
- *FL Course covers active listening* (2 hours).

Unit 2–Leadership

1. Describe and identify five leadership styles based on Blake & Mouton's Managerial Grid.
2. Describe the general characteristics of managers based on six criteria.
3. Categorize your management styles through self examination.
4. Describe how the general characteristics of managers impact the thirteen areas of management's concern.
5. Describe the characteristics of Team 9.9 Manager.
6. Define the four development levels of followers and how they may affect your leadership style.
7. Describe the impact of time and stress on leadership styles and the incident setting.

Analysis:
- Objectives #1-5 involve the use of a tool that has a "management" focus. It is a self-assessment of personality traits and should be presented only by people trained in its proper delivery. The content also shows a bias towards one preferred "style" which conflicts with the concept of situational leadership.
- Objective #6 is a partial presentation of situational leadership concepts.
- Objective #7 is a leadership issue.
- *HF, F2L, and FL Courses all address stress and stress management in high risk work environments* (6 hours).
Unit 3–Delegation

1. Define delegation.
2. Identify the benefits derived from effective delegation.
3. Identify the barriers which prevent effective delegation.
4. Describe the nine principles of effective delegation.
5. Describe the consequences of reverse delegation.

Analysis:
- Entire unit consists of basic supervision skills.
  - Needs to be covered, but not a leadership issue (First 40 Supervision training?).
  - FL Course simulation exercises require the use of delegation skills for trainees to be successful.

Unit 4–Conflict Resolution

1. Identify four types of conflict that can occur at an incident.
2. Identify the five basic styles of conflict resolution.
3. Cite four guiding principles in effective conflict resolution.
4. Explain suggested steps in conflict resolution.
5. Given a sample conflict, the trainee will apply steps most likely to lead to a satisfactory solution.

Analysis:
- This unit is a leadership issue.
  - FL Course covers conflict resolution using role-play exercises but does not go into the background content of how and why conflicts develop.

Unit 5–Civil Rights

1. Identify the importance of federal, state, and local laws and agency policies dealing sexual harassment, equal employment, American with Disabilities Act (ADA) and workforce diversity.
2. Describe a workplace free of inappropriate behavior.
3. Describe steps to correct and prevent inappropriate behavior.
4. Describe relationships between supervisor and the incident Human Resource Specialist.
5. Describe the importance of documentation and preserving confidentiality.
7. Define adequate facilities related to Americans with Disabilities Act (ADA).
8. Describe the incident supervisor's role to ensure contractors compliance of ADA.
Analysis:
- Objectives #1-6 are a duplication of annual agency required training.
- Objectives #7-8 are specific incident facility management issues.
  \[Needs to be covered, but not a leadership issue (S-354?).\]

Unit 6–Objectives, Performance Evaluations, Monitoring

1. Discuss the use of objectives in evaluating performance.
2. Analyze and discuss the parts of an objective.
3. Describe how objectives can be used to evaluate performance.
4. Discuss why it is important for supervisors to evaluate performance.
5. Discuss two primary systems for evaluating individual performance under NIIMS and describe the relationship between the two.
6. Describe the common monitoring techniques for us in evaluating the performance of others.
7. Discuss the considerations for the final closeout evaluation.

Analysis:
- Objectives #1-4 and #6-7 are basic supervision skills.
  \[Needs to be covered, but not a leadership issue (First 40 Supervision training?).\]
- Objectives #5 is a fire specific supervisory administration issue.
  \[Needs to be covered, but not a leadership issue (I-200?).\]

Unit 7–Internal and External Controls

1. Describe why effective internal controls are to be developed and maintained in your incident organization to ensure the integrity of: health and safety, property accountability, fiscal responsibility, and organizational requirements.
2. List and discuss the standard/normal internal controls used at incidents.
3. Describe external controls that may affect your incident organization.

Analysis:
- Entire unit consists of basic management issues in an incident setting.
  \[Needs to be covered, but not a leadership issue (I-200?).\]
Unit 8--Time Management

1. Describe the impact of internal/external influences and time choices.
2. Describe the four parts of the Management Cycle.
3. Describe how the Management Cycle and the section Planning Cycle guides work together.
4. Describe five time management strategies that can be applied to incident operations as well as day-to-day work activities.

Analysis:
- Objective #1, #2, and #4 are basic supervision knowledge or skills. 
  Needs to be covered, but not a leadership issue (First 40 Supervision training?).
- Objective #3 is a fire specific IMT level planning issue.
  Needs to be covered, but not a leadership issue (I-300?)

Unit 9--Technology Management

1. Discuss why it is important as a supervisor to know what technologies are available for implementation in incident management.
2. List current technologies relevant to your supervisory role.
3. Discuss the various sources available that enable supervisors to keep current on technological advances.
4. Describe the role of the supervisor in inter-functional and intra-functional information and technology exchange.

Analysis:
- Entire unit addresses technical skill issues.
  Relevant S-courses usually address current technology applications.
SUMMARY OF NON-LEADERSHIP TOPICS COVERED IN S-201/301

Supervisory Topics

Legal Responsibilities
- Diversity (Civil Rights, EEO, AA, ADA) 201/301
- Dealing with harassment 201/301
- CISD resources 201

Planning Skills
- PACE system 301
- Management cycle 301
- Time management strategies

Directing Skills
- Defining tasks with objectives 201/301
- Delegation 201/301
- Performance appraisals 201/301
- Documentation 201

ICS Topics

- NIIMS evaluation system 301
- Incident Planning Cycle 301
- Internal/external controls at incidents 301
- Current technology application at incidents 301
S-420, S-520 and S-620

These courses are targeted for the Command/General Staff at the Type 2 or Type 1 level, and for Area Command, respectively. Working as a team and team building are strongly emphasized, and simulations are used extensively. Leadership concepts are discussed, especially those that relate to communication. S-520 is widely recognized as a "weed out" course that screens participants rigorously before allowing them to move up to the Type 1 level. Traditionally, S-420 has not screened participants nearly as rigorously as S-520; passing 420 is not seen as being very difficult, while passing 520 is. The fact that many people who pass S-420 and perform on Type 2 teams fail S-520 would seem to support this. In the current curriculum and 310-1, it is possible to reach the Type 2 incident command level without ever having taken any leadership courses. It is fairly easy to make the case that this is far too late in a person's career to get the first exposure to leadership principles and practices. All members of Command/General staffs need to exercise leadership in their jobs on incidents, and they should be well grounded in leadership theories and practices long before arriving at the Type 2 level of incident management.

Although the "S-" designation denotes a "suppression skills" course, it could be argued that none of these courses fits into that category very neatly. In fact, these courses seem to suffer from an identity crisis: are they primarily learning experiences for the students or are they evaluation (screen out) opportunities for cadres made up mainly of existing practitioners at the Type 2, Type 1 and Area Command levels? Do they measure what people learn at the course or do they measure people's competency levels at things they already know? If we need to evaluate people (or teams) in a "hot seat" situation, why not admit that's the primary purpose of the event and forget about calling it "training"? Sure, people learn plenty while in the "hot seat", but the fact is that to be successful at S-520 you have to bring a lot of already developed competencies with you when you arrive for the course.

The leadership development process that we propose will complement the Command/General Staff and Area Command courses by helping people develop as leaders well before they arrive at the Section Chief or Officer level in the Incident Command System. In the future, it may be recognized that some of the leadership content in S-420, 520 and 620 will have already been covered in the leadership curriculum, allowing these courses to focus more exclusively on evaluating incident command skills and abilities in a team environment.

Review of Other Existing Courses for Leadership Content

A review of course and unit objectives for existing courses in the NWCG curriculum shows no clear pattern in terms of integrating leadership content into courses targeted at specific positions. For example, there is no information on follower responsibilities in S-130. Another example, and one that surprised us, is that there is no discernable leadership content in S-230, the course targeted at the Crew Boss position. Here is a course for a position that will be responsible for 19 firefighters on the fireline, yet it contains nothing related to leadership. Further, no courses that do focus on leadership are required to become a qualified Crew Boss.
The table below illustrates the leadership content in existing courses:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Leadership content?</th>
<th>Unit Number</th>
<th>Related Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-130</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-131</td>
<td>Yes</td>
<td>Unit 3: Communication</td>
<td>Obj. 1: Define communication and list ways to ensure that complete and accurate commo takes place. Obj. 4: Identify the commo responsibility of the Squad Boss during a tactical assignment.</td>
</tr>
<tr>
<td>S-200</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-205</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-211</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-212</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-216</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-217</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-230</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-231, 232, 233, 234</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-260</td>
<td>Yes</td>
<td>Unit 1: Rules of Conduct</td>
<td>Obj. 1: Describe the rules of conduct and prohibited conduct.</td>
</tr>
<tr>
<td>S-290</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-300</td>
<td>Yes</td>
<td>Unit 4: Operations</td>
<td>Obj. 2: Describe Incident Commander actions that may be utilized to direct and maintain control of incident personnel.</td>
</tr>
<tr>
<td>S-336</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S-371</td>
<td>Yes</td>
<td>Unit 1: Common Responsibilities</td>
<td>Obj. 1: Identify the responsibilities of the helibase manager necessary to promote positive interpersonal and interagency working relationships.</td>
</tr>
<tr>
<td>S-378</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Number</td>
<td>Leadership content?</td>
<td>Unit Number</td>
<td>Related Objective</td>
</tr>
<tr>
<td>---------------</td>
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<td>-------------------</td>
</tr>
<tr>
<td>S-420</td>
<td>Yes</td>
<td>Unit 1: Personnel Mgmt., Firefighter Safety and Fire Dynamics Unit 2: Team Building</td>
<td>Unit 1, Obj. 1: Describe team responsibilities regarding current issued for management of personnel safety and welfare in fire suppression. Unit 2: All eight objectives are related to communication and/or leadership.</td>
</tr>
<tr>
<td>S-430</td>
<td>Yes</td>
<td>Unit 2: Supervision</td>
<td>Obj. 2: Describe how to manage the Operation’s organization in terms of communication and delegation.</td>
</tr>
</tbody>
</table>

All of the courses above are part of an existing content revision cycle. We recommend that during the revision cycle, each course be examined closely to determine if leadership content is appropriate within the context of that course. Establishing a separate leadership curriculum will not eliminate the need to focus on position-specific leadership considerations within courses for positions like Crew Boss.

**NARTC Courses with Leadership Components**

**Fire Program Management**

This course is primarily a management skills course that is targeted at aspiring Fire Management Officers. It is interagency in nature; the National Park Service requires it for all of their Fire Management Officers, while the course is recommended by other federal agencies for their FMO's. Content includes sections on budget management, litigation, ecology, WFSA's, etc.

In 1993 a steering committee was established by the NWCG Training Working Team to conduct task analyses and develop a Fire Program Management course. The course is currently in a state of transition. Traditionally, this course has been a 72-hour classroom course. Unlike many NARTC courses, this course was designed to be delivered in geographic areas (it is seldom delivered at NARTC). There is currently a contract with a private vendor to put a great deal (approximately two thirds) of the course content into an online format so that it can be accessed via the Internet. The remaining one third of the course would remain classroom-based.

Although much of the course is management skills oriented, there is a 1.5 hour block that deals directly with leadership issues. This part of the course was initially developed by Paul Gleason as an outgrowth of the South Canyon Fire. Content includes discussions of recognition primed decision making, respectful listening and leadership styles.
Fire Management Leadership

This 3-day course is targeted at agency administrators at the Forest Supervisor/Deputy Forest Supervisor (USFS), Superintendent (NPS, BIA) and Field Office or Resource Manager (BLM, USFWS) level. Course objectives are:

- Improve agency administrator's ability to provide leadership in fire management and other emergency activities to better recognize when they and the public are being well served.

- Gain a common understanding of national policy, agency administrators responsibility and accountability, and agency administrator authority to improve all fire management actions.

Most of the content of this course is management process related. For example, discussion of policy is extensive, including the Federal Wildland Fire Management Policy. Other topics include the agency administrator's briefing, Wildland Fire Situation Analysis, Risk and Cost Analysis. Agency administrator authority and responsibility are covered in depth.

Participants in this course are already in leadership roles in their organizations, but may or may not have any background in fire. Since it is assumed that participants are already functioning leaders, teaching leadership principles is not emphasized. Internal and external relations and interagency cooperation are discussed, as well as the agency administrator's role in fire management.

Fire Management Leadership for Agency Executives

This is an 8-hour course for senior agency managers (e.g., State Directors, Regional Foresters). Its focus is primarily on policy and the ramifications of policy implementation to agencies and the public. While the word "leadership" is in the title of this course, leadership concepts are not taught. Cooperation and accountability are repeated themes. This event is actually not a training course per se, but rather a series of guest lectures and panel presentations.

NWCG 310-1

Review of 310-1 for Existing Leadership Courses and Positions Covered

The January 2000 version of the 310-1 is confusing in its references to leadership courses. Some of the courses are referenced under the "old" numbering system (e.g., S-201, 301, 401) while in other parts of the same document they are referenced under the "new" numbering system (e.g., S- 281, 381, 481). For the purposes of this analysis, we refer to course numbers as they currently exist (201 and 301), while recognizing that S-401 has never existed. The revision of S-201 and S-301 were put on hold pending the outcome of this analysis process.
Forest Service Manual 5109.17 mandates completion of S-201 and S-301 for Forest Service employees for many ICS positions. Other agencies follow the 310-1 and these courses are designated as "additional training" which is not required for their employees. In most agencies, it would be possible to reach the Command/General Staff level on an Incident Management Team without having taken any training specific to leadership principles and techniques.

S-420 and S-520 are required courses, however as noted above these courses exist more to evaluate leadership competencies than to teach leadership concepts.

<table>
<thead>
<tr>
<th>SECTION</th>
<th>POSITION</th>
<th>REQUIRED TRAINING</th>
<th>ADDITIONAL TRAINING . . .</th>
<th>COURSE NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command</td>
<td>ICT2</td>
<td></td>
<td>X</td>
<td>S-401</td>
</tr>
<tr>
<td></td>
<td>SOF2</td>
<td></td>
<td>X</td>
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<tr>
<td></td>
<td>IOF2</td>
<td></td>
<td>X</td>
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<tr>
<td></td>
<td>IOF2</td>
<td></td>
<td>X</td>
<td>S-401</td>
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<td></td>
<td>RXB2</td>
<td></td>
<td>X</td>
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</tr>
<tr>
<td>Operations</td>
<td>OSC2</td>
<td></td>
<td>X</td>
<td>S-401</td>
</tr>
<tr>
<td></td>
<td>STCR/STEN/STDZ/STPL</td>
<td></td>
<td>X</td>
<td>S-301</td>
</tr>
<tr>
<td></td>
<td>STAM</td>
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<td>X</td>
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<td>S-201</td>
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<tr>
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</tr>
<tr>
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<td></td>
<td>X</td>
<td>S-301</td>
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<td></td>
<td>TNSP</td>
<td></td>
<td>X</td>
<td>S-301</td>
</tr>
<tr>
<td>Logistics</td>
<td>All Unit Leader Positions</td>
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<td>X</td>
<td>S-301</td>
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<td>SECTION</td>
<td>POSITION</td>
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<td>ADDITIONAL TRAINING . . .</td>
<td>COURSE NUMBER</td>
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<tr>
<td></td>
<td>INCM, ORDM, RCDM, SECM, BCMG, EQPM</td>
<td></td>
<td>X</td>
<td>S-201</td>
</tr>
<tr>
<td>Finance</td>
<td>TIME</td>
<td></td>
<td>X</td>
<td>S-301</td>
</tr>
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<td></td>
<td>COST</td>
<td></td>
<td>X</td>
<td>S-301</td>
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<td></td>
<td>COMP</td>
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<td>X</td>
<td>S-301</td>
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<td>PROC</td>
<td></td>
<td>X</td>
<td>S-301</td>
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<tr>
<td>Expanded Dispatch</td>
<td>EDSP</td>
<td></td>
<td>X</td>
<td>S-301</td>
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<tr>
<td></td>
<td>EDSD</td>
<td></td>
<td>X</td>
<td>S-201</td>
</tr>
</tbody>
</table>

It should be apparent from the above review that current leadership training courses are not constructed in a "building block" approach where courses build on knowledge previously acquired. Even if the curriculum was constructed this way, many positions would not take advantage of such an approach under the current 310-1-- even if all the currently recommended training was mandatory! For example, the Logistics Section Unit Leader positions have S-301 as "additional training". If a person starts their leadership training at an intermediate level, when do they ever get the basics?

**BENCHMARKING OF OTHER ORGANIZATIONS' APPROACHES TO LEADERSHIP DEVELOPMENT**

**Military Organizations**

**Military Leadership Versus Leadership in Wildland Fire**

The U.S. Marine Corps feels pretty strongly about leadership, for obvious reasons. Leadership and its development are ingrained into most things a Marine does. For example, Marines make the statement "if there are two Marines walking down the street, one of them is the leader" even if they're the same rank (something akin to our "chief of party" concept). Throughout many decades of history and many intense battles, the Marines have come up with some distinct ideas about what makes a person a leader and what makes a leader poor, adequate, good, or great. No quibbling here about whether or not leadership is inherited or learned: the Marines spend weeks and weeks focusing on leadership development at all levels of their organization, both in the NCO and officer ranks. It seems to be a widely held belief in the military that leaders must be developed; it cannot be left to chance.
Are there enough parallels between what the Marines do and what wildland firefighters do for us to make valid comparisons and draw conclusions for our own leadership development? Some of the similarities are obvious. For example, military organizations and wildland firefighters both operate in a high risk work environment where poor leadership decisions can result in increased threat to life and property. Some similarities may be more subtle: both firefighting and military leadership processes tend to be very "mission-focused" and time-compressed, especially at the lower organizational levels, as opposed to the more "consensus-oriented" approach often used in the private sector. Another similarity is that "rank and file" personnel in both military and wildland fire organizations can easily distinguish good leadership from bad. The cultures of military and firefighting organizations are very similar in that subordinates do not suffer poor leadership gladly: the personal consequences to followers are just too costly.

Another similarity between firefighting organizations and military organizations is that because of the dynamic situations that are the norm on fires or battlefields, people at any level of the organization can suddenly find themselves "in charge". For example, crews are frequently split physically on fires; in this situation, a squad boss can easily be in a position to make life-or-death decisions that affect many other people. This is the compelling reason that has made the military institutionalize leadership development at all levels of the organization, rather than just concentrate on the top echelon. It is the reason that the wildland fire community needs to do the same.

There are also some key differences between leadership in military organizations and leadership in wildland firefighting. One significant difference is that military organizations readily accept that there will be times when even good decision making results in the deaths of some of their own personnel. In wildland firefighting organizations the basic precept is that no losses are acceptable under any circumstances. While this may influence the types of decisions made in many cases, it does not alter the principles and traits of a good leader. Which brings us to another difference between leadership in military and wildland fire organizations: military organizations all have written sets of leadership principles and traits, while wildland firefighting organizations do not. In the Army, these leadership principles and traits are printed on a plastic holder for each soldier's dog tags.

Another key difference between military and wildland fire organizations is that wildland fire personnel are empowered to refuse direct orders. We tell our people that they have the right to "say no" to assignments that they deem are unsafe. In the military, such an action would most likely lead to a court martial. Thus, while firefighting operations are not by nature "democracies", they are a shade more toward the democratic end of the spectrum than military operations. In wildland fire organizations, even in the "heat of battle", leaders may have to explain and justify decisions to subordinates. In the military, this is seldom a requirement or even an expectation. In the military, leaders are judged on whether they accomplished the mission or not, and on how well it was accomplished. In wildland fire, leaders are judged first on how safe the operations were, and second on whether incident objectives were met or not.

In summary, military organizations and wildland fire organizations are not identical, but they do share a number of key similarities. The numbers and types of similarities are
such that it seems appropriate to look at how military organizations deal with leadership issues, to glean some ideas for our own organizations. There is no desire to mimic what the military does, rather the intent is to borrow the best and most applicable ideas from the military in the process of crafting our own unique approach to leadership development in wildland fire.

**Establishing Leadership Principles**

Without common definitions and agreed-upon principles for leadership, how can people learn what to focus on in their own development or the development of their subordinates? For example, if "decisiveness" is a leadership trait that the organization values, it constitutes a defined set of behaviors that can be studied and practiced. Further, if "seek responsibility" is a valued leadership principle, employees can use that as a guide in making decisions on a daily basis.

Leadership may be many things to many people, but without some type of road map the only good leaders that our organizations will have will be ones who have found a workable formula through trial and error. Obviously our organizations do have some good leaders, the question is are there enough of them? The military has some poor leaders, even with its emphasis on leadership development. The question is, how many more poor leaders (or how many fewer good leaders) would the military have without such emphasis?

Leadership gurus in the private sector, such as Steven Covey, promote "principle-centered leadership". All branches of the U.S. military have defined leadership "traits" and "principles". While the terminology may vary from one organization to another, many of the concepts appear to be fairly universal. Military organizations worldwide supply their leaders with a list of the leadership traits and principles that are valued by the organization. The wildland fire community owes its leaders no less. (See Appendix B for examples of other organizations' lists and Appendix C for a prototype for wildland fire).

**Leadership Development in the U.S. Marine Corps**

The Leadership Task Group visit to the Marine Corps Base at Quantico, VA, was an intensive one-day event that was extremely well orchestrated by the Marine Corps. Lt. Col. Carlson, Director of Operations, Marine Corps University, was our host for the entire day. The main highlights of the visit were visits to (and discussions with the staffs of) the Staff NCO Academy, Officer Candidate School (including the Leadership Reaction Course), and The Basic School. The visit was fascinating and worthwhile from several different perspectives. There appear to be a number of training methods and techniques that could be adapted virtually verbatim and used in wildland fire training, both in leadership development and in non-leadership training.
How the Marine Corps Builds Leaders: NCO's

Perhaps the first thing that leaps out at you when benchmarking military organizations is their sheer size. The U.S. Marine Corps has approximately 172,000 active duty members. This is far larger than all of the federal and state wildland fire management agencies combined. In order to deliver effective training to such a large group of people, an organization must be focused and organized.

During our visit, the staff at Marine Corps University outlined their "cradle to grave", building block system of professional military education. In the ranks of non-commissioned officers (NCO's), this is visually represented as an inverted pyramid, with the least training and knowledge in the ranks of privates, slightly more at private first class, more at corporal, and so on up to the level of Sergeant Major/Master Gunnery Sergeant. The Marines use a combination of "Professional Self Study", traditional classroom training, and something called the "Professional Reading Program" to educate their NCO's.

There are three formal classroom courses for NCO's. In the Sergeant's Course, 7 days out of a total of 33 days of the curriculum are devoted to leadership training. At the next level is the "Career Course", aimed at Staff Sergeants. The message in the title of this course is that if you have arrived at this level, the Marine Corps could be a career for you. At lower ranks, the philosophy is "move up or move out". In the Career Course, 12 days out of a total of 37 days are devoted to leadership training. The third formal course in Marine Corps NCO development is called the Advanced Course, designed for Gunnery Sergeants. In this course, 10 days out of a total of 37 days are devoted to leadership training.

One thing the Marine Corps has that the wildland fire community does not is a good idea of the demographics of the participants in their various courses. This information is useful both in designing courses and in analyzing the training a work force receives at various stages. For example, the USMC student profile for the Advanced course shows that the average age of students is 34, average time in service is 14 years, average time in grade is 2 years. In other words, by the time a Marine NCO completes this course, on average he or she will have received 29 days of leadership training in the context of formal classroom courses, in 14 years of service. In wildland fire, we possess very little information regarding the demographics of attendees of our courses, which limits our ability to analyze and reach conclusions based on who gets what, when.

The impact of the Professional Self Study and Professional Reading Programs on the development of Marines should not be underestimated. Although neither of these programs occurs in a traditional classroom setting, both appear to contribute greatly to learning. Both programs are used for both NCO's and officers.

It's interesting to note some of the content of the Marine NCO leadership courses. While some of it is very military-specific, some of it would translate well into the world of wildland fire. For example, "effective written communication" is a component of all three NCO classroom leadership courses. When asked how written communication is a leadership skill, the Marines responded that leadership can be effected through any type
of communication, written or verbal. Given that written communication skills are a part of the required Knowledges, Skills and Abilities for many jobs in wildland fire, it would behoove the wildland fire agencies to think long and hard on this subject. It is widely recognized that our higher education system provides us with many people woefully unprepared to exercise even minimal writing skills.

Counseling and performance evaluation are also covered in all three NCO leadership courses. In existing wildland fire courses, counseling is almost never covered and performance evaluation is handled in a cursory fashion (i.e., show students the form). Yet dealing with subordinates effectively is one of the keys to leadership!

Guided discussions and guest lectures are used in all of the Marine NCO leadership courses. As NCO's progress upward on their career development track, they are given instruction on training program management, instructional techniques and career planning.

**How the Marine Corps Builds Leaders: Officers**

The development of officers in the Marine Corps is structured differently than that of NCO's. Marine Corps officers either come from the U.S. Naval Academy at Annapolis or they come through the Marine Officer Candidates School (OCS). The mission of the Marine OCS is "to TRAIN, EVALUATE, and SCREEN officer candidates to ensure that they possess the moral, intellectual, and physical qualities for commissioning and the LEADERSHIP POTENTIAL to serve successfully as company grade officers in the Fleet Marine Force." The OCS motto is "Ductus Exemplo": Leadership by Example.

Evaluation and screening of officer candidates occurs "in an atmosphere characterized by chaos, uncertainty and stress" (sounds just like being on a fire!). Candidates are evaluated on Leadership (50%), Academic ability (25%), and Physical Fitness (25%). This is a fair indicator of the importance the Marine Corps places on leadership ability in its officers.

One interesting facet of the evaluation of officer candidates is that much of it is conducted by NCO's. As the Marine Corps puts it, as an officer candidate you are "evaluated by those who lead" (e.g., officers) "and those you will lead" (e.g., NCO's). The idea that you have to prove your leadership ability to the satisfaction of those you will lead, before you are allowed to lead, is quite intriguing. Perhaps the employment of some permutation of this concept in wildland fire would lead to fewer leadership problems in the field.

Another interesting tool that the Marine Corps uses at its Officer Candidates School is the "Leadership Reaction Course" (LRC). This is an outdoor facility which is basically a set of walled "bays" approximately 20'x30' in size. Each bay contains a unique problem to be solved, such as: get an ammo container across a body of water using only a wooden plank and a piece of rope (without throwing the container). Students have never encountered these specific "problems" before. They are divided into small groups, the leader is selected and briefed on the problem, then the group has 10 minutes to solve the problem. Students are not evaluated on whether or not their group solves the problem; in
fact, only around 10% actually do solve it. Instead, the active display of leadership qualities is what is evaluated. As the Corps puts it, "a candidate's thought process and ability to maximize the potential of his fireteam is more important than the actual completion of the problem."

There are a number of somewhat similar "team-building, problem-solving" type exercises and programs offered in the private sector (e.g., raft a whitewater river with your team). The Marine Corps approach is appealing because of its simplicity and transportability and because it allows an objective evaluation of demonstrated leadership ability. It would not be difficult to develop a Leadership Reaction Course for the purpose of evaluating potential leaders in wildland fire.

Perhaps the most interesting thing that we saw during our visit was the University concept itself as applied by the Marine Corps. At The Basic School (where Marine officers go upon completion of Officer Candidate School), classes of approximately 250 Marine Lieutenants are taught by a cadre of Captains. Rarely is it the case that one instructor addresses a class of 250 students: more often, the class is broken down into much smaller increments for effective learning. The Captain-instructors either apply or are assigned to The Basic School from throughout the Marine Corps, for 3-year stints. Captains are not allowed to instruct a course until they have "apprenticed" under an existing instructor and completed an "Instructor Education Program". There is also an ongoing "Faculty Development Program". In contrast, our wildland fire instructors are only required to take a 36-hour "facilitative instructor" course before being allowed to instruct. One of the key benefits that the Marine Corps realizes from their system is the education of the Captains. The Captains teach the Lieutenants, but in the process learn a great deal themselves which is invaluable to the organization, especially when the Captains return to the field and apply what they've learned.

Another significant process used by the Marine Corps is that each new Captain who arrives at The Basic School to be an instructor has a one-on-one conference with the commander. This personal attention by the most senior leader not only emphasizes the importance that the organization places on learning, it also serves to "raise the bar" for the instructors in terms of what is expected of them. We have no parallel for this practice in any of our agencies.

**Decision Making Training for Marine Officers**

Making good, timely decisions amid chaos and uncertainty is a valued skill in the Marine Corps. At The Basic School at Quantico, a number of different philosophies and techniques are employed to help Marines develop their decision making skills. Decision making is injected into almost all instruction to encourage a process of "immersion and discovery". Students are given as much responsibility as possible. Students are taught counseling skills and how to develop subordinate leaders, in addition to the philosophy of leadership and core values. Classroom instruction on decision making involves few lectures. As much instruction as possible is moved out of the classroom, and tactical decision making games are used extensively.
One educational tool that the Marine Corps is making great use of is the "sand table". The tool itself is just what the title implies: a box or table filled with sand, about 8’x10’ in size. Sand is used because it can easily be re-shaped to form different types of "terrain" features. The Marines use sand tables to perform "Tactical Decision Games" or TDG’s; they even have a publication called "Designing TDG’s" that helps instructors create their own. The concept is this: a student is presented with a scenario that could be a historical situation or one that has been made up. For example, your platoon is at the base of this hill, you are taking fire from that ridge, your objective is to take the hill, now what do you do.

The student works through the problem in the presence of a number of his or her peers, adding to the stress of the situation. Sound decision making under stress is a highly prized leadership skill in the Marine Corps, just as it is in the ranks of wildland firefighters. The student not only has to explain his or her decisions but also has to convey orders just as they would be conveyed in a real situation. In other words, it isn't enough to just say "we'd go around to the right and take the hill", you have to say what specific instructions would be given to subordinates and when. The use of TDG’s to simulate real situations and give students opportunities to practice this type of decision making and communication is a training method that the wildland fire community could easily employ. In the not-too-distant past, sand tables were used in wildland fire training but they are seldom used today. The fact that the Marine Corps favors the use of this low tech tool says a lot: the Corps has access to some of the most sophisticated computer simulation tools currently available, yet they choose to use boxes full of sand to practice and evaluate leadership skills.

In terms of decision making theory, the Marine Corps teaches their young officers the difference between analytical and recognitional decision making. Through consultations with experts in the field, such as Dr. Gary Klein, the Marine Corps has come to believe that recognitional decision making is the most useful type of decision making for chaotic, rapidly changing situations. These types of theories should be explained to wildland firefighters and they need to be allowed to practice them in a training environment.

**Immersion and Discovery as Learning Methods**

The Marine Corps has made use of some of the finest academic minds available to develop its instructional techniques. For leadership and decision making training, formal lectures are used infrequently. Based on experience, the Marine Corps feels the "crawl, walk, run" (or tell, show, do) method of learning is not the best. Their desire is to put the student in the environment in order to expose him to conditions he can expect in the "real world". Another term for immersion is "sink or swim": students are placed in realistic, stressful situations and given the opportunity to fail, prior to receiving any formal instruction. This gives the student a better appreciation for the techniques and procedures that are taught later. This is the essence of the concept of immersion.

In terms of the process of discovery, the Marines feel that students are sometimes the best instructors. The role of the instructor becomes one not of "teaching", but more one of facilitating learning. Instructors are not expected to somehow "know" how to instruct; they go through an organized Instructor Education Program. Wildland fire organizations
need to take a look at this model and determine if it would be useful for our instructors as opposed to the current approach of requiring Facilitative Instructor and calling it good.

**Continuous Learning in the Marine Corps**

The Marine Corps has a solid belief that its members can learn a great deal by studying the history of the organization, which dates back to 1775. Study of battles prior to 1775 occurs frequently as well. Reading is strongly encouraged, with one Marine Corps publication entitled "The Book on Books". This is basically a listing of hundreds of pertinent books with short descriptions of their theme and content. For many courses, the reading of certain books is a prerequisite. The first thing participants do in class is to discuss the books they've read; it quickly becomes apparent who has completed the reading. To quote the "Book on Books": "the main thing to remember is that the professional reading program is not a check-in-the-box exercise. It is an exercise in learning!"

Listen to the Marine Corps philosophy on reading, as written in the "Book on Books": "there is nothing that Marines are discouraged from reading." "The probability of a Marine being an expert on war without reading is slim." "History gives you an appreciation for the realities of your profession which is essential." Any of these concepts readily translates to the world of wildland firefighting.

Another technique used in many Marine Corps courses is that students either select or are assigned a topic to research and write a report on. This has a three-fold benefit: it forces students to study some element(s) of the subject at hand in great depth; it hones writing skills; it helps sharpen presentation and public speaking skills when students present their conclusions to their peers.

The implications for fire training are obvious: we could have our own "Book on Books", a list of "selected readings" (books, accident investigation reports, news articles, etc.) from our own rich history. We could use the "research topics" approach in a number of courses to foster in-depth analysis of issues, stimulate discussion and sharpen our employees' writing and presentation skills.

The Marine Corps has established itself as a learning organization. We could realize huge gains in educating wildland firefighters if we could instill in our work force the value of reading books and learning from history, the commitment to continuing education. While many people in our work force already possess these values, our organizations could do more to encourage learning and to develop tools to facilitate learning from history or teaching others appropriately.

Perhaps it is time for the wildland fire agencies to consider a "cradle-to-grave" University approach to wildland fire training, using some of the educational concepts employed by the Marine Corps. At the present time, training delivery in wildland fire agencies is quite fragmented. Some agencies are using an apprenticeship program at the "entry level", while many others are not. Even for agencies using an apprenticeship program, there is a large gap in organized training delivery between that level and the NARTC level.
Leadership Development in the Corporate World

The biggest challenge for benchmarking leadership development practices in the corporate world is the variation that exists. This variation is driven by the wide range of internal cultures and frequent management doctrine changes that follow senior executive transitions. However, some basic guidance can be derived from a 1998 study conducted by Linkage, Inc., a training firm and Warren Bennis, a leading author in the field of leadership development. In this study more than 350 companies were surveyed. One of the key findings of the study was nearly all companies that identified employee leadership skills as critical to their success had integrated leadership development systems in place. This supports the concept that the effective leadership development systems should be adapted to the unique culture of the target organization. For these reasons, we would suggest that the best use of benchmarking from private corporations lies in the techniques they utilize rather than their strategies for workforce implementation.

Some Ideas to Borrow

A second key finding of the Linkage, Inc. survey was that most successful leadership development systems included some or all of the following four components:

- A distinct leadership model comprised of core values, principles, or competencies that forms the basis for all evaluation processes and provides a framework for all components of the program.

- 360-degree assessments using multiple raters (subordinates, peers, superiors) to measure critical leadership skill areas and give feedback to participants regarding their strengths and weaknesses in those areas.

- Action learning through simulation so that participants engage in real world leadership challenges that relate to their work environment.

- Significant involvement of senior level management as advocates for change, as faculty in formal training courses, as raters in the 360-degree assessments, and as mentors.

Respondents to the survey identified these techniques as superior to the traditional methods of accelerated promotions, executive graduate study programs, and sporadic conferences.

A third important finding from this survey had to do with design factors that contributed to successful programs. In addition to the involvement of senior management as previously mentioned, the most important factors cited included:

- Doing a thorough needs assessment.

- Linking leadership development into a strategic plan.

- Leveraging internal expertise with professional design assistance.
Some Differences to Note

The primary target audience for many company leadership development systems is mid-level managers and high-level executives. In other words, field level employees must gain access to this target audience through a survival of fittest process, if they gain access at all. The underlying philosophy of this approach is the desire to focus limited training resources on the perceived "highest potential" employees. Consequently many entry-level employees are not afforded leadership development opportunities when they are at the most teachable point of their career. For example, Abbott Labs, a company with 57,000 employees, was one of the companies identified in the Linkage, Inc. survey as having a "best practices" leadership development system. It is a two-tiered program. The first tier is targeted at the senior manager level and runs 140 participants a year through the program. The second tier is at the functional vice president level and has 35 participants a year. Another "best practices" example of a leadership development program was BP Amoco, a company with 85,000 employees. Their program focus is only on the individuals that are viewed to have the potential to achieve the top 120 posts in the company.

Much of the "leadership training" that is made available to the field level employees of corporations involves basic supervision skills or emphasis on personal insight in order to alter individual styles and behaviors in the workplace. These are usually generic offerings delivered to employees from many different companies with no specific links to the environments that the participants work in. Also, these courses are offered sporadically and usually are not part of a systematic delivery approach. This type of training does not adhere to the principles of "train as you fight" and "train as a unit."

What About Field Level Leadership?

Back to the question of benchmarking corporate leadership development strategies for workforce implementation. . .does the wildland fire leadership environment more closely parallel a military environment or a corporate environment? If we accept the premise that leadership is about providing positive motivation and unified direction to a workforce, then we must examine the consequences and challenges that wildland firefighters face at the field level. Even the lowest level leaders on the fireline are routinely put into situations that have life/safety consequences and rapid intuitive decision making demands. From this perspective, the wildland fire leadership environment is significantly different from the corporate environment at the field level. This contrast becomes less distinct at the upper management level. In the corporate environment, consequences at the lowest levels are borne by the "company" as profit and production related risk. The decision making process is generally consensus oriented with the analytical model being the rule. Field level employees will provide input to this
process but are rarely put in a position to make rapid decisions about life threatening situations or make independent decisions involving large financial commitments.

**National Fire Academy**

The National Fire Academy (NFA), based in Emmitsburg, Maryland, is an organization under FEMA with the following purpose "...to advance the professional development of fire service personnel..." The NFA primarily serves the structural firefighting community.

The Management Science Program at NFA contains a number of course offerings related to leadership, supervision and management. Some of these courses contain very distinct leadership content, such as ethics, leadership styles, coaching and motivating, identifying and reducing stress, group dynamics and team effectiveness.

There is no sequencing in the National Fire Academy's curriculum. In other words, a person is not required to be in a certain position to take a certain course (with a few exceptions). Instead, the courses focus on the skill sets or competencies that are needed to perform as a supervisor in the fire service. If a person is a supervisor, they can take any supervision course they need, depending on their own self-assessment. Most of NFA's supervision and management offerings are primarily targeted at the chief officer, company officer or battalion chief level, however.

One offering is called "Fire Service Supervision: Self-Study", which covers some of the basic principles and attitudes on stress management, time management, counseling, conflict resolution and group dynamics. This course is available as a download from the NFA web site (http://www.usfa.fema.gov/nfa/). This course should be examined by the wildland fire training community, as its content is probably applicable to many people in our profession.

One big difference between the structural fire profession and that of wildland fire is that there is no 310-1 for structural fire. Although the NFPA has professional qualification standards, none of the courses at the NFA are requirements for advancement; people go there to take classes because they believe they will gain knowledge that will help them perform their jobs, not because a document says they have to.

Some of the supervision, management and leadership courses presented by NFA appear to offer content that would be of use to the more senior levels of the wildland fire organization (local unit Fire Management Officer and above). Wildland fire training staff need to become more familiar with the NFA curriculum in order to make specific recommendations for attendance.

**National Conservation Training Center**

The U.S. Fish and Wildlife Service National Conservation Training Center (NCTC) in Shepherdstown, WV, has an extensive list of course offerings dealing with supervision and leadership. These offerings are keyed to the Office of Personnel Management's 27 leadership competencies, much the same way that BLM's leadership training is designed.

Courses range from "Supervision: Is It For You" to "Leadership Through Influence". Some courses focus on supervisory roles and responsibilities, some focus on career coaching and development, some on identifying behavioral types and effective communication. Assessment
tools are also available, from a 360-degree assessment tool (the Leadership Effectiveness Inventory) to the Myers-Briggs Type Indicator.

Courses at NCTC are designed for all people in supervisory positions and are not targeted at emergency management personnel. Analytical decision making skills seem to be emphasized as opposed to recognition-primed decision making. Many of the courses appear to offer valuable material that would be useful to most supervisors, however these types of courses appear to fit into the "first 40 supervisory training" niche identified by most agencies. None of the courses are directly tied to leadership in a high risk work environment where good decision making under stress is essential and where poor leadership decisions can lead to increased threats to life and property.

ASSESSMENT OF ALTERNATIVES

This analysis was conducted using the **SWOT** process to evaluate Strengths, Weaknesses, Opportunities and Threats.

**Status Quo**

This alternative consists of leaving the curriculum and the 310-1 basically unchanged. Course revision would be accomplished as planned for existing courses.

**Strengths:**

- Courses already exist. Requirements are identified in the 310-1 that specify currently available courses.
- Provides some of the content needed by our work force as well as some of the tools.
- Cadres are already established, consisting of agency employees.
- There would not be additional training needs generated by totally new courses (no requirement to re-take courses that are simply revisions of older courses).

**Weaknesses:**

- Only addresses a few of the identified problems with the existing curriculum (see section titled "Fundamental flaws in the current curriculum").
- Problems that could be addressed with course revision are limited to: not specific to leadership, content w/no application, duplication of required agency training, no method for testing, linkage with different level courses.
• Complete redesign of courses will be necessary, not just a simple revision.
• Current course revision model requires in-house (agency employee) SME's, which really don't exist for development.

Opportunities:
• Individual entities can develop their own custom curricula for leadership under this system (don't have to compete with an identified, required curriculum).
• Could obtain authority to substitute existing NWCG courses for agency supervisory training requirements, or obtain waivers.
• Courses could be revised under existing NWCG course revision schedule (S-281, S-381).
• Recent knowledge can be incorporated into course revisions.

Threats:
• Agencies have identified a gap in leadership skills as an ongoing problem. This gap exists in spite of existing curricula.
• Courses are put on to meet a requirement rather than to provide a tangible benefit to individuals and agencies.
• Custom courses that are developed will not be standardized; there will be a wide range of delivery methods used (implying variations in quality).
• Use of agency personnel for course cadre may be a threat due to experienced people's existing and expanding workloads (i.e., they may not be available when needed).
• If courses are not required, all people in key leadership positions will not have benefited from leadership training.
• NWCG development staff may not be available to revise courses in a timely manner.

Separate Leadership Curriculum

This alternative consists of the development of a connected set of courses that focus specifically on leadership; there would be a logical and position-specific progression through these courses as people develop in their careers. Courses would have a unique designator, such as L- rather than S-, to allow them to be easily distinguished from technical skills courses.
Strengths:

• Could solve all of the identified problems with the existing curriculum.

• If training is required, it would be a strength because everyone would be getting the same concepts presented in a standardized fashion.

• Leadership training, if separated from other training (e.g., ICS position-oriented skills training) would facilitate the recognition of leadership as a discrete and necessary discipline and field of study.

Weaknesses:

• Making leadership courses required might be unpalatable to some interagency cooperators who typically resist adding more required courses.

• There could be a bigger course development workload (and associated costs), than there would be for simple revisions to existing courses.

• Could take a lot of time and money to create new courses.

Opportunities:

• Create a new methodology for course development and revision that allows for ongoing development/revision as needed, rather than on a fixed time frame (e.g., once every 5 years).

• Can use existing, non-NWCG courses such as in-house, military or vendor training products.

• Ability to build curriculum from the ground up by adding complexity and content to what is initially presented to firefighters.

• Could help answer the need for the large number of leaders we are going to need in the near future.

• May help agencies address identified leadership competencies.

Threats:

• Could result in over-reliance on private vendors to produce and deliver leadership training. This could drive up costs or, in a worst case, result in non-delivery of products within prescribed time frames.

• Could meet with resistance to the overall concept of a leadership curriculum from some NWCG member agencies.
Provide Resource List of Outsourced Courses/Reading Materials

This alternative consists of simply using what is already available in the private sector. Training would not be fire or emergency operations-specific, but could be more corporate-oriented. Existing NWCG "leadership" courses would be eliminated.

Strengths:

- No development workload or costs for agencies.
- Would expose agency employees to other work environments and ways of thinking/dealing with leadership problems/issues.
- Would have access to professional instructors and leadership SME's.
- Courses are available to anyone who can pay the fee.

Weaknesses:

- Courses may not be tailored to the fireline or any other type of high-risk environment.
- Could cost a lot of money per student.
- There are currently no standard criteria for evaluating private-sector leadership courses for applicability to our work force; someone would have to do this work, which could be very labor-intensive.
- It would be difficult or impossible to establish requirements for leadership training that are tied to specific courses for specific levels of the organization.

Opportunities:

- Look at other organization approaches to leadership development.

Threats:

- Could spend a lot of time and effort on this and determine that we need our own leadership curriculum.
- Could result in non-involvement of upper level agency leaders in leadership development process.
• Could result in heavy reliance on special delivery vendors who are subject to market forces (i.e., bankruptcy etc.).

• There might be a reluctance to invest in entry-level personnel who arguably may be the most in need of getting leadership concepts; also, most courses in the private sector are not geared to the "follower" level.

**Other Possible Alternatives**

Embedding leadership modules in existing courses. This approach would be quite labor intensive, subject to a great deal of duplication, and would take about 10 years to implement given the current NWCG course revision schedule.

Cadres could be structured so that people from different occupations (i.e., Operations, Logistics) are there to relate how leadership issues are dealt with in their specific occupation. This could occur in any of the above alternatives.
RECOMMENDATIONS

PREFERRED ALTERNATIVE

The Task Group selects development of a separate leadership curriculum as the preferred alternative. We feel this option provides the best possibility of solving the problems currently associated with leadership training in the wildland fire curriculum. Again, the goal is to institutionalize leadership development in wildland fire organizations. It should be noted that this is a process that is more complex and involved than simply sending people through classroom training. It will be a lifelong learning process that blends training with experience and builds on knowledge gained at earlier stages in a person’s career. It will involve self-study through reading books and taking distance delivery courses; it will involve formal and informal mentoring provided by experienced leaders. It will involve self-assessment and the assessment of peers, subordinates and supervisors, and the crafting of courses of action for self-improvement.

The following are specific recommendations of the Leadership Task Group:

1. Establish a distinct Leadership curriculum of courses that are connected conceptually from the least complex (follower) level to the most complex (organizational leader) level. This curriculum should have its own designator (e.g., L-courses) to set it apart from technical courses.

2. Some existing leadership courses can be used, and some new course development will be required in order to meet the leadership development needs of all levels of our organizations. Develop a strategy for accomplishing new course development, including a timeline for completion, delivery strategy and cost analysis. Delivery strategy needs to include a plan for developing agency employees as instructors for the more advanced leadership courses; initially these courses will only be deliverable by a vendor. Once we have employees who have completed the first several levels of the leadership curriculum, some of them can be identified as potential instructors. Agency employees who will instruct advanced leadership courses (i.e., Primary Leadership and above) should undergo a rigorous “train the trainer” process.

3. The "Human Factors" course and the "Followership to Leadership" course should be in the Publication Management System (PMS) as Level III courses under the "NWCG Course Development and Format Standards" guidelines. The Human Factors course is currently in the PMS; Followership to Leadership is currently under development and needs to be reviewed by the NWCG Standards Unit upon completion.

4. The "Primary Leadership" course and the "Incident Leadership" course should be exempted from the requirements included in the "NWCG Course Development and Format Standards" guidelines. These standards were developed primarily for the in-house development of technical courses in the cognitive domain to be delivered by agency personnel. These two advanced leadership courses are in the
affective domain and will be developed and presented by vendors—at least initially. Adhering to the NWCG standards will likely slow the development and delivery of these courses and is not likely to enhance course effectiveness.

5. Establish a mechanism for evaluating the effectiveness of leadership training. Such a mechanism might involve the use of contractors and agency personnel conducting field interviews and observing job performance on fires, months or years after training is presented. The idea is to accurately assess how the training impacted performance on the job.

6. Eliminate the current S-201 and S-301 courses from the NWCG training curriculum. Examine whether the supervision and management skills training that exists in those courses needs to be presented within the wildland fire curriculum, or whether those training needs can best be satisfied by other agency-required training that is already available.

7. Incorporate the Human Factors course into the NWCG S-130 Firefighter training course. This will allow all entry-level firefighters to receive information on follower responsibilities. The Human Factors course will also exist as a stand-alone course, for the benefit of other ICS positions that are not required to take S-130.

8. Eliminate the S-131 Advanced Firefighter training course. Make the Followership to Leadership course a requirement for the FFT1 position instead. Both are 8 hour courses, so this change results in no net increase of required training for the Squad Boss position. S-131 was developed in response to the South Canyon Fire tragedy, yet it does little to address leadership issues at the squad boss level. We could only find two objectives in a single unit in S-131 relating to communication responsibilities. Since Followership to Leadership does address precisely those leadership issues, it should be the required course at the FFT1 level. The more cognitive, technical content of the existing S-131 course could be developed into a Job Aid if needed.

9. Revise the Wildland and Prescribed Fire Qualification System Guide (PMS 310-1) to make specific leadership courses "required training" for certain key positions and "additional training" recommended for other positions. Incident Operations Standards Working Team to review, modify as needed, and approve changes to the 310-1 recommended in this document. Suggested completion date, Fall 2001.

10. Adopt a specific set of desired leadership principles and values that are common to all our organizations. Communicate these principles and values to our work force and incorporate them in leadership training.

11. Develop a self-study component of the leadership curriculum that allows people to study leadership concepts and principles outside the context of formal classroom training. For example, establish a leadership-themed web site and
publish a "book of books" of recommended reading materials that will help people develop as leaders in wildland fire.

12. Institute the use of leadership skills assessment tools within the framework of the leadership curriculum. The primary intent in using assessment tools is to enable people to identify which leadership traits they need to improve. The intent is not to use these assessment tools for disciplinary action. Some results could be used to determine whether or not individuals are ready to advance to higher-level Incident Command leadership positions.

13. Establish a standing group (e.g., Leadership Steering Committee) that will be responsible for overseeing the implementation of the recommendations in this report. It is widely recognized that, regardless of their quality, reports alone do not accomplish change in an organization.

14. During the ongoing NWCG course revision process, analyze each course within the "S-" curriculum to determine if leadership content is appropriate in the course given the nature of the position for which the course is targeted (e.g., Crew Boss). The creation of a separate leadership curriculum will not eliminate the need for the "context-specific" practice of leadership competencies. Widespread use of "tactical decision games" and other simulations will allow people to practice leadership within specific positions in a safe environment before being confronted with "the real thing".

**Proposed Leadership Development Map**

SEE FOLLOWING PAGE
Advanced Incident Leadership

S-420 Assessment

Incident Leadership

S-420 Assessment

Primary Leadership

360° Assessment

Followership to Leadership

Self Assessment

Human Factors

Temporary Systems

Permanent Organizations

Self-Study
Correspondence or On-line Resources

Leading Organizational Change
USDA Graduate School
DOI University
Universities
Private Vendors

Type 1 IMT Candidates

Organizational Leadership
Fire Program Mgmt. Course
Fire Mgmt. Leadership Course
National Fire Academy
Private Vendors

Type 2 IMT Candidates
Division Supervisors

Entry-level Career Firefighters

Potential New Leaders

All Firefighters

Self-Study
Correspondence or On-line Resources

Professional Reading
Mentoring & OJT
Personality Style Instruments
Facilitating AARs
Developing SOPs
Tactical Decision Games

Temporary Systems

Permanent Organizations

Entry-level Career Firefighters

Potential New Leaders

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Professional Reading
Mentoring & OJT
Personality Style Instruments
Facilitating AARs
Developing SOPs
Tactical Decision Games
FIRE LEADERSHIP DEVELOPMENT

CAREER EVOLUTION

EARLY  LATE

TASK/ENVIRONMENT

Operational/Field  Strategic/Political

KEY ATTRIBUTES

Command-Oriented  Consensus-Oriented

FIRE TRAINING

S-131  S-520/620

MANAGEMENT TRAINING

Supervisory-Oriented  Policy-Oriented

LEADERSHIP TRAINING

Followership to Leadership  Fire Management Leadership
Target Audiences

The target audiences for the proposed Leadership Development process are all employees who are obtaining wildland fire qualifications. The intent is for people to be immersed in leadership development throughout their careers, from inception to close. There will be five levels of development stages. Not all employees will reach all these levels, depending on their aspirations and abilities.

The five levels identified are:

1. Followers
2. Developing leaders (making transition from follower to leader)
3. Leaders of people
4. Leaders of leaders
5. Leaders of organizations

The following table briefly summarizes what training the target audiences would receive at each phase of their career. Note that this does not include self-study programs, mentoring, assessments, evaluations and other training that would be ongoing throughout a person's career.

<table>
<thead>
<tr>
<th>INTENDED AUDIENCE</th>
<th>STAGE OF CAREER</th>
<th>COURSE TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Followers (i.e., FFT2)</td>
<td>Inception</td>
<td>Human Factors</td>
</tr>
<tr>
<td>Developing Leaders (i.e., FFT2 to FFT1)</td>
<td>Transition</td>
<td>Followership to Leadership</td>
</tr>
<tr>
<td>Leader of People (i.e., CRWB; RXI2)</td>
<td>Early Maturation</td>
<td>Primary Leadership</td>
</tr>
<tr>
<td>Leader of Leaders (i.e., DIVS; Type 2 IMT Command Staff)</td>
<td>Maturation</td>
<td>Incident Leadership</td>
</tr>
<tr>
<td>Leader of Organizations (i.e., Type 1 IMT Command Staff; Area Command)</td>
<td>Pinnacle</td>
<td>Advanced Incident Leadership</td>
</tr>
</tbody>
</table>
Suggested Leadership Course Topic Areas

Human Factors .............................. (NWCG product PMS 492)

Goal: Provide all firefighters an awareness of individual responsibilities and individual skills required for them to successfully integrate into teams/crews working in dynamic, high-risk environments.

- Professional Firefighter Ethic
- Basic Situation Awareness
- Basic Communication Techniques
- Attitude and Stress Barriers
- Basic Decision Making Process
- Teamwork/Followership

Delivery: 4 hours at local unit with local instructor.

Followership to Leadership .............. (currently a SAFE sponsored project under development)

Goal: Provide potential leaders the opportunity to understand the requirements of being in a leadership role and enable them to do a self-assessment of their individual traits and motivation for entering into a leadership role.

- Leadership Values and Principles
- Situational Leadership
- Decision Making in Group Settings
- Self-assessment of Individual Traits and Values
- Individual Leadership Development Plan

Delivery: 8 hours at local unit with local instructor.

Primary Leadership .............................. (currently a USFS course contracted with private vendor)

Goal: Enable entry-level career firefighters (small unit leaders) to adopt the principles of good leadership by practicing specific techniques in live simulation exercises.

- Leadership Environment
- Providing Purpose, Motivation, and Vision
- Situational Leadership and Sources of Power
- Briefing and Debriefing
- Team Building
- Stress, Fear, and Decision Making Errors
• Ethical Decision Making
• Discipline, Standards, and SOPs
• Conflict Resolution
• Mentoring to Develop Subordinates

Delivery: 40 hours at Apprentice Academy/Regional Training Center with selected cadre meeting a specific train-the-trainer requirement.

Professional Self-Study .......................... (to be developed)

Goal: Provide current leaders the opportunity to follow an individual leadership development plan between formal course requirements in order to continue learning and improving their leadership skills. Some examples of topics to include:

• Professional Reading (Book of Books)
• How to Mentor and Provide OJT
• How to Facilitate an After Action Review
• How to Develop S.O.P.s
• Personality Style Self-assessment Instruments
• Tactical Decision Games

Delivery: Provide these resources as correspondence or on-line courses.

Incident Leadership ............................. (to be developed)

Goal: Enable potential incident leaders of leaders (DIVS, Unit Leaders, ICT3) to improve their ability to apply the principles of good leadership in dynamic, high-risk environments by practicing specific techniques in live simulation exercises.

• 360 Degree Assessment (Pre-work)
• Big Picture Situation Awareness
• Maintaining Communication Links in Temporary Systems
• Team building for Temporary Systems
• Decision Making in High-stress and Uncertain Situations
• Decision Making and Value Dilemmas
• Resolving Disagreement
• Command Presence

Delivery: 32 hours at Regional Training Center with selected cadre meeting a specific train-the-trainer requirement.
Advanced Incident Leadership .......................... (currently a NPS sponsored project under development)

Goal: Provide potential Type 1 IMT candidates an awareness of strategic leadership issues.

- Strategic Thinking
- Values and Beliefs Influence Decision Making
- Transactional and Transformational Leadership Behaviors
- Coalition Building
- Effective Team Behaviors
- Accountability, Responsibility, and Liability

Delivery: 32 hours at NARTC with selected cadre.

IMPACTS TO THE 310-1

The Task Group recognized early on that if leadership development is important to wildland fire agencies, some amount of required training in leadership competencies will be required. Although the consequences of poor leadership are most disastrous on the fireline, poor leadership elsewhere on incidents can have adverse impacts on organizational efficiency, agency finances and public image. We looked at each position, with one of our main considerations being how large and complex an operation that position typically confronts. Positions with high complexity and many subordinates are identified with training requirements. Positions with lower complexity and fewer subordinates are identified with recommended training.

The Leadership Task Group views these recommendations as a starting point for further comprehensive review by the Incident Operations Standards Working Team and by individual agencies. We encourage the groups involved in this further review process to conduct it with some sense of urgency. Waiting another five years until the next "regularly scheduled" comprehensive revision of the 310-1 should not be considered an option.
## COMMAND & STAFF

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Notes:

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## OPERATIONS

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LOGISTICS

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## EXPANDED DISPATCH

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RELATED ISSUES

1. Basic Supervision Skills. . .Where Should We Teach Them?

S-131, S-201, and S-301 are the courses that the current S-course curriculum has relied on to address leadership. The majority of the content in these courses is actually basic supervision or duplication of agency required training (see 201/301 analysis). If these courses are discontinued or re-designed to focus on leadership skills, there will be a certain amount of supervision content that will then not be addressed in the S-course curriculum. This situation must be assessed to determine if that supervision content is a duplication of agency requirements (see #2 below) or if there is a target audience with this training need, thus requiring a place in the S-course curriculum.

2. 2nd 40 Waiver

OPM supervisory training requirements state that an individual must receive 80 hours of training upon being appointed to any first level supervisory position. This first 40 requirement must address very specific supervision components (performance appraisals, personnel classification system, promotion plans, adverse actions, grievances, awards, civil rights, property management, employee development, etc). The second 40 requirement is more flexible, the regulation reads "The second 40 hours should consist of training and developmental experiences relevant to the needs of the individual employee." Agencies may want to consider pursuing a waiver or equivalency determination for the content in the proposed leadership curriculum.

3. Leadership in Temporary Systems vs. Leadership in Standing Organizations

The primary focus of the proposed leadership curriculum will be leadership skills as applied in a temporary system environment (emergency operations within the incident command system). While the majority of the basic principles of leadership are common to any work environment, there are certain issues that leaders in standing organizations must deal with that are not present for leaders in a short term incident work environment and vice versa. It is anticipated that there may be some demand for similar leadership development opportunities for organizational leaders (FMOs, Regional/State Fire Directors, etc) at a level higher than their incident qualification driven training path may provide for them. Currently there are some NARTC courses that may address this need. They include Fire Program Management (M-581) and Fire Management Leadership, and Fire Management for Agency Executives. Other sources for this type of leadership training may include the National Fire Academy and private vendor courses that the corporate world relies on. These private offerings would be particularly appropriate as individuals progress to the highest policy making levels in the various fire management agencies. At these upper management levels, the leadership environment more closely parallels that which is found in
business and industry, where "consensus oriented" leadership skills are in demand as opposed to the "command oriented" leadership skills required to be successful on the fireground. Another critical issue in the upper management leadership environment is the ability to lead organizational change. It is important that this transition of leadership environments be recognized by both employees and by the agency in order to implement a comprehensive leadership development process.

4. Delivery of the Primary Leadership Course

The Primary Leadership Course of the proposed leadership curriculum will be the first significant financial and time investment for leadership development that the agencies will put into a career status entry-level employee. The cost and complexity of the course is equivalent to current 400 level S-courses but must be delivered at the 200 level window of an employee's career to provide the most benefit for the agency and the employee. This will require a more long-range approach and financial commitment to employee development than is the current norm in the wildland fire service.

5. S-420

The Incident Leadership Course of the proposed leadership curriculum could be used as a prerequisite of the S-420 course. This would provide an opportunity for re-design of the existing S-420 to allocate more time for the live simulation exercises and follow-up assessment of trainee performance.

6. Decision Making Training

There are two basic ways to teach decision making. The first is teaching the process. Since analytical decision making is methodical, the way to teach it is to teach the method. We do this in the S-420 and S-520 courses when we teach people to go through the planning process, to select the strategy and tactics, and to develop the incident action plan. The second way is to provide experience. This is the method necessary to teach intuitive decision making (also called "naturalistic" decision making or "recognition primed" decision making). Intuitive decision making is based on pattern recognition skills, and the only way to gain those skills is through experience. One of the foundations for leadership development in the military is the ability to make decisions in fluid and uncertain situations. They recognize that good intuitive decision making at the soldier level is as critical to operational success as good analytical decision making at the command level. The same holds true in the wildland fire environment. The current wildland fire curriculum addresses the analytical process at the command level but does very little to address intuitive decision making for fireline leaders. The military approaches this need by utilizing simple tactical decision games on a regular basis at the unit level. The following is a quote from the U.S. Marine Corp publication Designing Tactical Decision Games, “Breadth of experience is
more important than detail of experience. From a decision making perspective, 10 different tactical decision games are more valuable than a single full-scale computerized war game.” Implementing some program of decision making training will be necessary to support a complete leadership development process. This training program will need to be designed so that it can be delivered by local supervisory firefighters on a frequent basis. Special emphasis should be placed on incorporating TDGs into courses that focus on fireline decision making positions (e.g., S-200, S-300, S-230, etc.)
APPENDIX A

Leadership Task Group
of the
Training Working Team
National Wildfire Coordinating Group

CHARTER

I. NAME – The name of the group is the Leadership Task Group of the NWCG Training Working team, hereinafter referred to as the Task Group and the Team respectively.

II. AUTHORITY – The Task Group is established pursuant to the charter authority granted to the Team by the parent National Wildfire Coordinating Group and the respective Secretaries of the Interior and Agriculture.

III. PURPOSE – The purpose of the Task Group is to conduct a thorough analysis of how leadership issues are currently handled in the NWCG training curriculum and develop recommendations for changes or additions to the curriculum. The goal is to have a continuum of leadership training that will be presented to trainees as they develop from lower level to higher level qualifications, such that there is a logical flow and development of leadership concepts and practices throughout the entire curriculum.

IV. MEMBERSHIP – The Task Group will be an interagency group and will not exceed 5 members. One member of the group will also be a member of the Incident Operations Standards Working Team (IOSWT).

V. ORGANIZATION – The Task Group will report to the Team. The Team will identify the Task Group Chairperson. The Task Group Chairperson will act as liaison with the Team, through personal contacts, meeting attendance and participation in Team teleconferences.

VI. AUTHORITY OF THE CHAIR – The Chairperson is authorized to convene meetings at such times and places as deemed necessary by the Task Group. Meetings will be held to the minimum number necessary to efficiently accomplish the purpose of the Task Group and the Team. Use of telephone conference calls and electronic mail are anticipated in the conduct of much of the business of this Task Group.

The Chairperson is authorized to make contacts, negotiate work assignments, make commitments on behalf of the Task Group and commit such resources as are available within the Task Group. The Task Group Chairperson shall recommend to the Team any need for changes in resources and/or authorities if such needs are identified.
V. MEETINGS – Task Group meetings shall be scheduled as needed and agendas provided to the Team Chair and members in advance. Costs for time and travel shall be borne by the Task Group members' respective employing agencies. Costs other than the above will be supported by the Team's budget.

VI. RESPONSIBILITIES – The responsibilities of the Task Group are:

1. Recommend development of new or modified leadership training courses or OJT as needed.

2. Review existing NWCG training courses that have strong leadership components. Recommend retention, modification or elimination of existing NWCG training courses.

3. Recommend changes to training requirements or recommendations stated in the NWCG Wildland and Prescribed Fire Qualification System Guide (PMS 310-1).

4. Recommend methodologies for development of new coursewares.

5. Recommend specific delivery methods for leadership training and education.

6. Identify a central theme or themes related to leadership as it is applied in high risk environments such as the fireline. Incorporate these themes into curriculum recommendations. Ensure that proposed leadership curricula are structured so that these themes are developed in a logical progression from the lowest level courses to the highest level.

VII. DOCUMENTATION – A written report will be due to be presented to the Team at their February 2001 meeting. This report will address all items covered in Section VI above. Accurate minutes of each Task Group meeting will be provided to the Team.

VIII. TASK GROUP LONGEVITY – The intent is to "sunset" this Task Group upon acceptance by the Team of its final report. This decision will be finalized by the Team and reported in writing in the Team minutes when it occurs.

________________________________________          _________________
NWCG TWT Chair                                                   Date
# APPENDIX B

## OTHER ORGANIZATION’S LEADERSHIP TRAITS AND PRINCIPLES

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Safety |

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Duty  
Selfless service  
Honor  
Personal Courage |

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| Self-improvement  
Technical proficiency  
Seek responsibility  
Sound decisions  
Set example  
Soldiers well-being  
Inform subordinates  
Sense of responsibility in subordinates  
Task oversight  
Build the team  
Employ according to capabilities |

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Courage  
Decisiveness  
Dependability  
Initiative  
Tact  
Justice  
Enthusiasm  
Bearing  
Endurance  
Unselfishness  
Loyalty  
Judgement |

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| Self-improvement  
Technical proficiency  
Marine well-being  
Inform personnel  
Set example  
Task oversight  
Train as a team  
Sound decisions  
Sense of responsibility in subordinates  
Employ according to capabilities  
Seek responsibility |

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Decision making  
Planning  
Use of system  
Professional ethics |
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<td>Duty before self</td>
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<tr>
<td></td>
<td>Get out in front</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>Five Star Leadership</strong></th>
<th><strong>Traits:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Patrick L. Townsend and Joan E. Gebhardt</td>
<td>Integrity</td>
</tr>
<tr>
<td></td>
<td>Technical competencies</td>
</tr>
<tr>
<td></td>
<td>Belief in goal</td>
</tr>
<tr>
<td></td>
<td>Master the gesture</td>
</tr>
<tr>
<td></td>
<td>No tolerance for incompetence</td>
</tr>
<tr>
<td></td>
<td>Consider people</td>
</tr>
<tr>
<td></td>
<td>Don’t ask others to do what you won’t</td>
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<td></td>
<td>Trust others to follow an example</td>
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<thead>
<tr>
<th><strong>The Leadership Challenge</strong></th>
<th><strong>5 Practices:</strong></th>
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<tbody>
<tr>
<td>James M. Kovzes and Barry Z. Pozner</td>
<td>Challenge the process</td>
</tr>
<tr>
<td></td>
<td>Inspire shared vision</td>
</tr>
<tr>
<td></td>
<td>Enable others</td>
</tr>
<tr>
<td></td>
<td>Model the way</td>
</tr>
<tr>
<td></td>
<td>Encourage the heart</td>
</tr>
<tr>
<td><strong>LEADERSHIP SECRETS OF ATILIA</strong> &lt;br&gt;THE HUN</td>
<td><strong>LEADERSHIP TRAITS:</strong></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>
| Wes Roberts | Loyalty  
Courage  
Desire  
Emotional stamina  
Physical stamina  
Empathy  
Decisiveness  
Anticipation  
Timing  
Competitiveness  
Self-confidence  
Accountability  
Responsibility  
Credibility  
Tenacity  
Dependability  
Stewardship |

<table>
<thead>
<tr>
<th><strong>GENERAL PATTON’S PRINCIPLES FOR LIFE AND LEADERSHIP</strong></th>
<th><strong>LEADERSHIP PRINCIPLES:</strong></th>
</tr>
</thead>
</table>
| Porter B. Williamson | Be a commander  
Transfer the weak  
Quick communication  
Immediate punishment  
Say what you mean  
No one is indispensable  
Mission is all important  
Be alert for trouble  
Select leaders for accomplishment  
Authority=Responsibility  
Protect troops first |

<table>
<thead>
<tr>
<th><strong>SITTING IN THE HOT SEAT</strong></th>
<th><strong>IC CHARACTERISTICS:</strong></th>
</tr>
</thead>
</table>
| Rhona Flin | Willing to take charge  
Emotional stability  
Stress resistance  
Decisiveness  
Controlled risk-taker  
Self-confidence  
Self-awareness |
<table>
<thead>
<tr>
<th>THE ART OF WAR</th>
<th>VIRTUES OF A GENERAL:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun Tzu</td>
<td>Wisdom</td>
</tr>
<tr>
<td></td>
<td>Sincerity</td>
</tr>
<tr>
<td></td>
<td>Humanity</td>
</tr>
<tr>
<td></td>
<td>Courage</td>
</tr>
<tr>
<td></td>
<td>Strictness</td>
</tr>
</tbody>
</table>
# APPENDIX C

## RECOMMENDED WILDLAND FIRE LEADERSHIP

### VALUES AND PRINCIPLES

#### TURNING VALUES INTO PRINCIPLES

<table>
<thead>
<tr>
<th>VALUES</th>
<th>PRINCIPLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duty</td>
<td>Be proficient in your job, both technically and as a leader.</td>
</tr>
<tr>
<td></td>
<td>Make sound and timely decisions.</td>
</tr>
<tr>
<td></td>
<td>Ensure that tasks are understood, supervised and accomplished.</td>
</tr>
<tr>
<td></td>
<td>Develop your subordinates for the future.</td>
</tr>
<tr>
<td>Respect</td>
<td>Know your subordinates and look out for their well being.</td>
</tr>
<tr>
<td></td>
<td>Keep your subordinates informed.</td>
</tr>
<tr>
<td></td>
<td>Build the team.</td>
</tr>
<tr>
<td></td>
<td>Employ your subordinates in accordance with their capabilities.</td>
</tr>
<tr>
<td>Integrity</td>
<td>Know yourself and seek improvement.</td>
</tr>
<tr>
<td></td>
<td>Seek responsibility and accept responsibility for your actions.</td>
</tr>
<tr>
<td></td>
<td>Set the example.</td>
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</tbody>
</table>
APPENDIX D

ACKNOWLEDGMENTS

Leadership Task Group Members:

Larry Sutton - Lead BLM Training Unit, NIFC
Jim Cook USFS, NIFC
Dan Buckley NPS, Yosemite National Park
Rowdy Muir BLM, Vernal Field Office
Emil Magallanes BLM, Boise Smokejumpers

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Rich Wands

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Laurie Perrett

BLM Larry Hamilton

NPS Rick Gale

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Lt. Colonel Eric Carlson

U.S. Army National Guard Lt. Colonel Rob Lytle

MC Solutions Lark McDonald

National Fire Academy Robert Murgallis
Dr. Burt Clark
APPENDIX E

LINKS TO 1998 WILDLAND FIREFIGHTER SAFETY AWARENESS STUDY
(TRI-DATA PHASE III)

An analysis of goals and implementation strategies contained in the 1998 Wildland Firefighter Safety Awareness Study was conducted to measure what suggested improvements in leadership the Preferred Alternative would foster. The Preferred Alternative would at least partially address 10 of the goals contained in the 1998 Wildland Firefighter Safety Awareness Study, and activate 18 of the Implementation Strategies for those 10 goals. The specific implementation strategies and a brief description of how the Preferred Alternative would enact that strategy is presented below:

GOALS 42/43/44:

Implementation Strategy 1, Page 4-27: “Set and enforce minimum requirements for key leadership positions.”

How: Five levels of required leadership training will be developed and become mandatory for appropriate ICS positions (see “Impacts to 310-1”).

Implementation Strategy 3, Page 4-28: “Review incumbents who do not measure up, and reassign or retrain if possible.”

How: Leadership deficiencies have been identified repeatedly as a factor contributing to wildland fire accidents. The Preferred Alternative would instill leadership concepts early in a person’s career; those concepts would be reviewed and strengthened in a cohesive series of leadership development courses. Other components of the alternative would evaluate performance and experience throughout a person’s career using tools such as a 360° assessment; after action reviews, self-study; and mentoring.

GOAL 46:


How: The Preferred Alternative would institutionalize a 360° assessment for obtaining and providing sharply focused feedback on leadership. This assessment would take place as a prerequisite before a person could make the move to becoming a “Leader of Leaders;” at the Division Supervisor/Operations Section Chief/Incident Commander Type 2 levels.
GOAL 66:

Implementation Strategy 1, Page 5-29: “Increase use of realistic field training and exercises.

How: The courses identified in the Preferred Alternative would be designed to use live simulation exercises. Borrowing from the military benchmarks, scenarios would be implemented that would immerse developing leaders into environments that will expose them to the challenges encountered in the “real world.”

Implementation Strategy 2, Page 5-29: “Develop more case studies and simulations based on real fires.”

How: The corporate world uses case studies of companies that have made dramatic improvements in their leadership development programs, and thus, improve the way they conduct business. The courses identified in Preferred Alternative would be designed to incorporate those ideas, and develop and utilize case studies modeled on actual incidents. Institution of a professional reading program would also encourage the study of past events on real fires.


How: The Preferred Alternative would include the use of simulations and interactive exercises throughout an individual’s career, at each stage of leadership training. It also encourages the inclusion of “tactical decision games” and other appropriate simulations in position-specific NWCG training courses.

Implementation Strategy 4, Page 5-30: “Conduct skill training ‘in context’ of realistic scenarios.”

How: The Preferred Alternative, borrowing from the military benchmarks, would utilize realistic scenarios to replicate the stress a developing leader would be subjected to on an actual incident. The “training in context” (TIC) method and the use of “tactical decision games” will enhance the assimilation process and allow developing leaders to perform as they have learned.

GOAL 68:

Implementation Strategy 2, Page 5-36: “Target certain individuals”

How: The Preferred Alternative outlines certain strategies that control where and
to whom the more complex and expensive courses are delivered. This combined with self-study components that are prerequisites to attending the formal courses will work toward the goal of efficient use of limited training resources. The use of 360 degree assessment tools will help identify individuals who are ready to develop further as leaders.

GOAL 69:

Implementation Strategy 1, Page 5-37: “Train supervisors, IMT members and dispatchers in key ‘human’ skills.”

How: This implementation strategy addresses Goal #69 in the Wildland Firefighter Safety Awareness Study: “Provide supervisors with training in leadership and supervisory skills.” This goal and associated implementation strategies are what the Preferred Alternative directly targets. The existing supervisory leadership courses (S-201 and S-301) are rich with supervisory skills and lean on leadership skills. S-201 (or S-281 in the January 2000 310-1) is a recommended course for positions transitioning from a follower to a leader (e.g., FFT2 to FFT1). S-301 (or S-381 in the January 2000 310-1) is a recommended course at the Strike Team Leader/Unit Leader level. With the small amount of leadership skills taught in S-201 and 301, and a smattering of additional information lightly covered in other courses, there is no comprehensive method to train and develop leaders. The Preferred Alternative initiates a leadership development process at the beginning of a career, and continues this development with a series of additional training requirements, self-study programs, and assessment tools throughout an individual’s career.

GOALS 74/75:

Implementation Strategy 1, Page 5-51: “Develop a Decision Skills Training Program.”

Implementation Strategy 2, Page 5-52: “Increase emphasis on ‘naturalistic’ or ‘recognition-primed’ decision-making.”

How: The Preferred Alternative addresses these two implementation strategies by employing concepts of Situation Awareness and Recognition-Primed Decision-making throughout a person’s career. Decision skills would be discussed, practiced and reinforced at each training stage in the Leadership development curriculum. Literature on the different decision making models will also be available in the professional reading program recommended in the Preferred Alternative.

Implementation Strategy 3, Page 5-54: “Search for ways to reduce workload and stresses in the field.”
Implementation Strategy 4, Page 5-54: “Encourage self development of ways to cope with stress.”

Implementation Strategy 6, Page 5-56: “Talk about stresses and raise awareness.”

How: The Preferred Alternative would address these three implementation strategies first by teaching developing leaders what it is that causes stress and how to recognize signs of stress. Methods to reduce or cope with stress would be imparted and revisited throughout a person’s career. Decision making under stress will also be taught and practiced using scenarios and tactical decision games.

GOAL 81:

Implementation Strategy 1, Page 5-71: “Adapt and adopt CRM-type training and attitudes.”

Implementation Strategy 2, Page 5-72: “Develop assessment instrument to periodically refine CRM-type training.”

Implementation Strategy 3, Page 5-73: “Infuse CRM principles throughout training.”

How: The Preferred Alternative would utilize the newly developed NWCG Human Factors on the Fireline to address basic CRM principles. The more advanced courses identified by the Preferred alternative would directly address many aspects of human performance and work group dynamics, all related to leadership: communication, decision-making, situational awareness, and barriers to these processes.

Implementation Strategy 6, Page 5-78: “Develop work climate of trust through changes in the culture.”

How: The Preferred Alternative will definitely involve changes in the current culture, where a formal method for leadership development is lacking. The primary goal of the Preferred Alternative is to develop leaders that are effective in their day-to-day jobs as well as in temporary organizations on incidents in high-risk environments. It will be designed so that it has measurable results: effective leadership. The mere act of moving toward this goal should enhance the level of trust in the work climate, since in the past there has been more talk than concrete action with regard to leadership development. Actions speak louder than words.